TC-WA7ESA/WE505/WE605S/ WE705S/WR550Z

SERVICE MANUAL

US Model TC-WA7ESA/WE605S/WR550Z

Canadian Model

AEP Model TC-WE505/WE705S

> UK Model TC-WE505

E Model Australian Model Chinese Model

TC-WE605S



Photo: TC-WE705S

* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

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Model Name Using Similar Mechanism		TC-WA7ES/WR565/WE665S	
Tape Transport Machanism Type	DECK-A	TC-WE605S/WR550Z:	
	DECK- B	TC-WA7ESA/WE705S:	

SPECIFICATIONS

System

Recording system 4-track 2-channel stereo

Fast-winding time (approx.) 90 sec. (with Sony C-60 cassette)

High-speed fast-winding time (approx.) (TC-WA7ESA and TC-WE705S

45 sec. (with Sony C-60 cassette)

Bias

AC bias

Signal-to-noise ratio (at peak level and weighted with Dolby NR off) Type I tape, Sony Type I (NORMAL): 55 dB Type II tape, Sony Type II (HIGH): 57 dB Type IV tape, Sony Type IV (METAL): 58 dB

S/N ratio improvement (approximate values)

With Dolby B NR on: 5 dB at 1 kHz, 10 dB at 5 kHz With Dolby C NR on: 15 dB at 500 Hz, 20 dB at 1 kHz With Dolby S NR on (unavailable on the TC-WE505): 10 dB at 100 Hz, 24 dB at 1 kHz

Harmonic distortion

0.4% (with Type I tape, Sony Type I (NORMAL): 160 nWb/m 315 Hz, 3rd H.D.) 1.8% (with Type IV tape, Sony Type IV (METAL): 250 nWb/m 315 Hz, 3rd H.D.)

Frequency response (Dolby NR off)

Tape type	
Type I tape, Sony Type I (NORMAL)	30 - 16,000 Hz (±3 dB, IEC), 20 - 17,000 Hz (±6 dB)
Type II tape, Sony Type II (HIGH)	30 - 17,000 Hz (±3 dB, IEC), 20 - 18,000 Hz (±6 dB)
Type IV tape, Sony Type IV (METAL)	30 - 19,000 Hz (±3 dB, IEC), 20 - 20,000 Hz (±6 dB), 30 - 13,000 Hz (±3 dB, -4 dB recording)





Wow and flutter

TC-WA7ESA/WE705S/WE805S/ WR550Z	TC-WESOS
±0.13% W. Peak (IEC) 0.07% W. RMS (NAB) ±0.18% W. Peak (DIN)	±0.14% W. Peak (IEC) 0.08% W. RMS (NAB) ±0.19% W. Peak (DIN)

Variable pitch range (approx.) (TC-WE705S and TC-WE505 only) -30 to +30%

Inputs

Line inputs (phono jacks)

Sensitivity: 0.16 V Input impedance: 47 kilohms

Outputs

Line outputs (phono jacks)

Rated output level: 0.5 V at a load impedance of

47 kilohms

Load impedance: Over 10 kilohms

Headphones (stereo phone jack)
Output level: 0.25 mW at a load impedance of 32 ohms

Power requirements

General

Where purchased	Power requirements	
US, Canadian, Panama model	120V AC, 60Hz	
AEP, UK, German, Malaysia, Singapore, Chinese model	220 – 230V AC, 50/60Hz	
Australian model	240V AC, 50/60Hz	
E model	120/220/240V AC, 50/60Hz	

Power consumption

26W

Dimensions (approx) (w/h/d)

UK, and Australian model: 430 × 120 × 303 mm (w/h/d) (17 × 4 ³/₄ × 12 inches) EXCEPT UK, Australian model: 430 x 120 x 290 mm (w/h/d) (17 × 4 3/4 × 111/2 inches) including projecting parts and controls

Mass (approx.)

4.2 kg (9 lbs 5 oz)

Supplied accessories

Audio connecting cords (2 phono plugs - 2 phono plugs) (2)

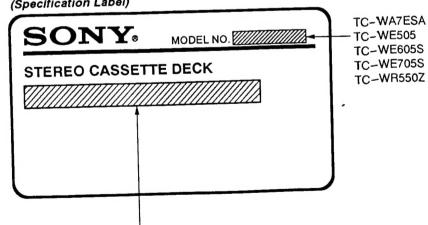
Remote commander (RM-J910) (1): (WA7ESA: Canadian model)

Design and specifications are subject to change without

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MODEL IDENTIFICATION (Specification Label)



US, Canadian, Panama model : AC 120V 60Hz Australian model : AC 240V~50/60Hz

AEP, UK, Malaysia, Singapore,

Chinese, German model : AC 220-230V~50/60Hz E model : AC120/220/240V~50/60Hz

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

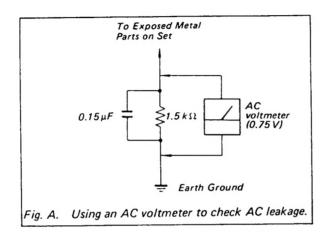
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



SAFETY-RELATED COMPONENT WARNING!!

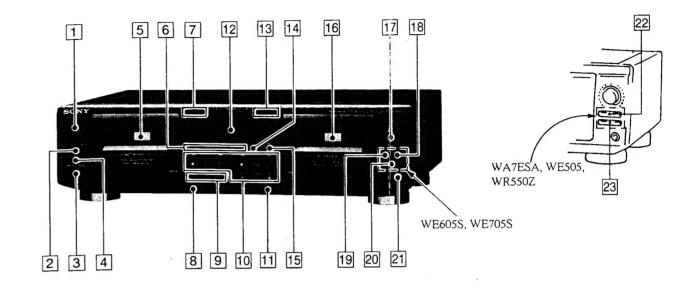
COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

1-1. IDENTIFYING THE PARTS



FRONT PANEL

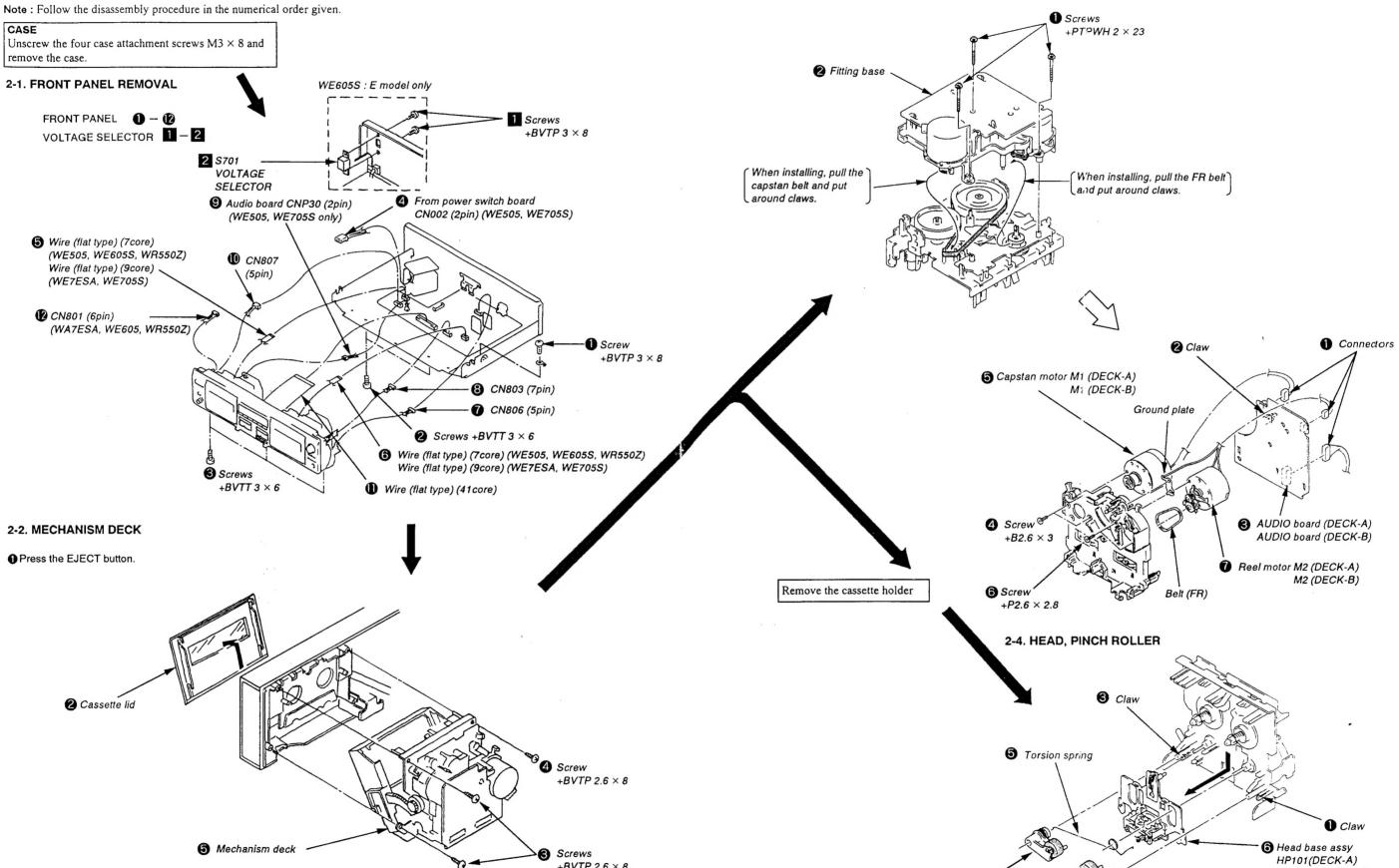
- 1 POWER switch
- 2 DIRECTION MODE switch
- 3 PITCH control
- 4 PITCH control ON/OFF switch
- 5 Deck-A
- 6 RMS "operation buttons RMS/START buttons SET buttons CHECK buttons DISPLAY buttons
- 7 COUNTER buttons (deck-A) RESET button MEMORY button
- 8 ♠ (eject) button (deck-A)
- 9 DOLBY NR switches OFF/ON/FILTER ON switch B/C/S switch
- 10 Tape operation buttons
- ►► (rightward fastwinding)/AMS "/ RMS" +button
- (stop)/(RMS ") CLEAR button
 (reverse play)/(RMS ") BACK
- (forward play)/(RMS") FRONT button
- II PAUSE button
- O REC MUTE (record muting) button
- REC (record muting) button

- 11 \(\text{eject} \) button (deck-B)
- 12 Display panel
- COUNTER buttons (deck-B)
 RESET button
 MEMORY button
- AUTO CAL button
- SYNCHRO DUBBING buttons HIGH button NORMAL button
- 16 Deck-B
- AUTO REC (recording) LEVEL control
- 18 ARL button
- FADER button
- 20 SYNCHRO button
- [2] PHONES jack (stereo phone jack)
- 2 ARL button
 - (WA7ESA, WE505, WR550Z)

(WE605S, WE705S)

- [27] FADER button
 - "Random Music Sensor
- "Automatic Music Sensor

SECTION 2 DISASSEMBLY



+BVTP 2.6 × 8

2-3. CAPSTAN MOTOR, REEL MOTOR

4 Lever (pinch lever REV) assy

HRPE101(DECK-B)

2 Lever (pinch lever FWD) assy

SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback/erase head rubber belts

pinch roller capstan

idlers

- 2. Demagnetize the record/playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustment.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading		
Forward	.CQ-102C	30 to 65g • cm (0.42 to 0.9 oz • inch)		
Forward back tension	CQ-102C	DECK-A: 1 to 6g • cm (0.014 to 0.083 oz • inch) DECK-B: 2 to 9g • cm (0.03 to 0.12 oz • inch)		
Reverse	CQ-102RC	30 to 65g • cm (0.42 to 0.9 oz • inch)		
Reverse back tension	CQ-102RC	1 to 6g • cm (0.014 to 0.083 oz • inch)		
FF/REW	CQ-201B	70 to 120g*cm (0.98 to 1.66 oz*inch)		

3-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

- 1. The adjustment should be performed in the publication. (Be sure to male playback adjustment at first.)
- The adjustments and measurement should be performed for both L-CH and R-CH.
 - Switch position

DOLBY NR switch

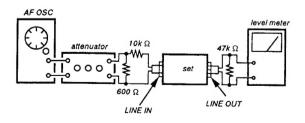
: OFF

DIRECTION MODE switch :

◆ Standard record position :

Deliver the standard input signal level to input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

- Record Mode -



Standard Input Level

Input terminal	LINE IN	
source impedance	10k Ω	
input signal level	0.5V (- 3.8dB)	

Standard Output Level

Output terminal	LINE OUT	
load impedance	47k Ω	
output signal level	0.5V (- 3.8dB)	

Test Tape

Tape	Contents		Use
P-4-A100	10kHz, -	- 10dB	Azimuth Adjustment
P-4-L300	315Hz,	0dB	PB Level Adjustment
WS-48B	3kHz,	0dB	Tape Speed Adjustment

0dB=0.775V

Test Mode

1. Insert a short-circuit plug into TP801 (2P) and turn ON the power switch.

At first, all the fluorescent tubes light up, then the system returns to normal display. (However, "0,00" is not displayed on the counter.)

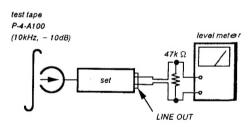
- 2. To release the test mode, remove the short plug and turn off the power switch.
- 3. Remove the short plug after completion of adjustment.

Record/Playback Head Azimuth Adjustment

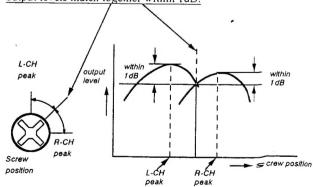
DECK-A DECK-B

Procedure:

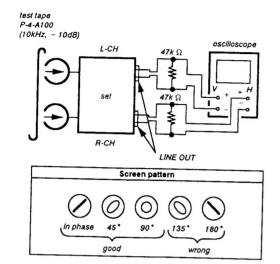
1. Forward playback Mode



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.

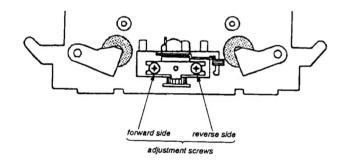


3. Playback Mode



- 4. Change the reveres playback mode and repeat the steps 1 to 3.
- 5. After the adjustment, lock the adjustment screws with suitable locking compound.

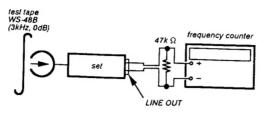
Adjustment Location: - record/playback head -



Tape Speed Adjustment | DECK-A | DECK-B Procedure:



- Forward Playback Mode -



(High speed adjustment)

- 1. Set to test mode. (Refer to page 7)
- 2. Set to FWD playback mode.
- 3. Keep on pressing the HIGH SPEED DUBBING switch.
- 4. Adjust RV72 so that the frequency counter reading becomes $6,000 \pm 20$ Hz.
- 5. Release test mode after adjustment is completed.

(Normal speed adjustment)

- 1. Set to FWD playback mode.
- 2. Adjust RV71 so that the frequency counter reading becomes $3,000 \pm 10$ Hz.

(Pitch control adjustment) (TC-WE505/WE705S only)

- 1. Turn ON the PITCH CONTROL switch.
- 2. Set RV902 to mechanical center.
- 3. Set to FWD playback mode.
- 4. Adjust RV601 so that the frequency counter reading becomes $3,000 \pm 10$ Hz.

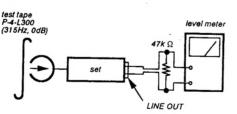
Frequency difference between the beginning and the end of the tape should be within 3%.

Frequency difference between the deck A and deck B the beginning of the tape should be within 1.5%.

Adjustment Location: AUDIO board, MAIN board. (See page 10)

Playback Level Adjustment | DECK-A | DECK-B Procedure:

- Forward Playback Mode -



Adjust RV11(L-CH) and RV21(R-CH) so the level meter reading becomes the adjustment limits below.

Adjustment Value:

LINE OUT level : -7.7 ± 0.5 dB (0.301 to 0.338V)

Level difference between channels: within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

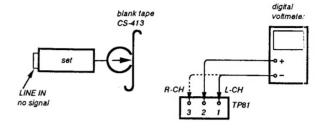
Adjustment Location: AUDIO board. (See page 10)

Bias Consumption Current Adjustment | DECK-B|

This adjustment should be performed when replacing the head assy or the bias oscillating transformer (T81, T91).

Procedure:

⟨ ⟩: R-CH



- 1. Connect the digital voltmeter to test point TP81.
- 2. Set RV81(RV91) to mechanical center.
- 3. Set to FWD record mode.
- 4. Adjust T81(T91) so that the digital voltmeter reading becomes minimum.

Adjustment Value: Maximum 220mV

Adjustment Location: AUDIO board. (See page 10)

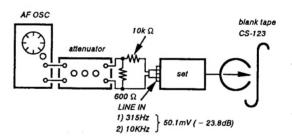
Record Bias Adjustment DECK-B

Setting:

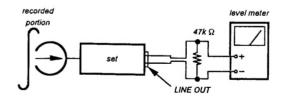
REC LEVEL control: standard record position (Refer to page 7.)

Procedure:

1. Record Mode



2. Playback Mode



Confirm that the 10kHz playback output is 0 ± 0.5dB relative to the 315Hz output. If necessary, adjust RV81 (L-CH), RV91(R-CH) and repeat the steps given above.

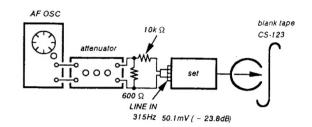
Adjustment Location: AUDIO board. (See page 10)

Record Level Adjustment DECK-B

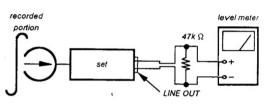
REC LEVEL control: standard record position (Refer to page 7.)

Procedure:

1. Record Mode



2. Playback Mode



Confirm playback the tape recorded become adjustment level as

If necessary, adjust RV101(L-CH), RV201(R-CH) and repeat the steps 1 and 2.

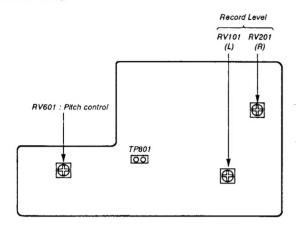
Adjustment Value:

LINE OUT level: -23.8 ± 0.5 dB (47.2 to 53mV)

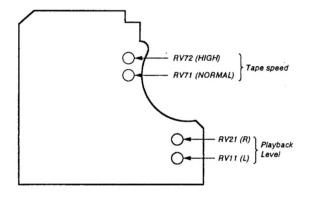
Adjustment Location: MAIN board. (See page 10)

- Adjustment Parts Location Diagrams -

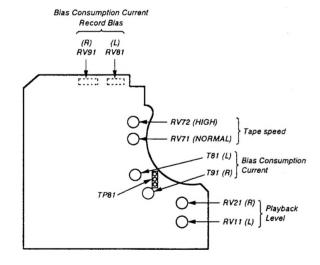
[MAIN BOARD]



DECK-A: [AUDIO BOARD]



DECK-B: [AUDIO BOARD]



SECTION 4 EXPLANATION OF IC TERMINALS

IC801 CXP8224-043Q (SYSTEM CONTROL/VFD DRIVE)

Pin No.	Pin name	I/O	Description	
1	A STOP SW	I	Mechanism stop switch for deck-A. H: Stop	
2	VERSION	1	Virsion select terminal.	
3	TEST	I	Test mode select terminal. L: Test	
4	SIRCS	I	Sircs signal input terminal.	
5	AMS IN	I	AMS signal input terminal. L: Music present.	
6	VOL OUT	0	REC level control output (PWM).	
7	SEL A/B	0	Playback A/B selector. L: A, H: B	
8	CONTROL A IN	I	Control A input.	
9	CONTROL A OUT	0	Control A output.	
10	GP CAL 0	0	GEQ CAL-0 output for auto calibration.	
11	GP CAL 1	0	GEQ CAL-1 output for auto calibration.	
12	REC CAL 0	0	Recording CAL-0 output for auto calibration.	
13	REC COL 1	0	Recording CAL-1 output for auto calibration.	
14	POWER IN	I	Power OFF Detection terminal.	
15	REC EQ H/L	0	REC EQ high/normal select. L: Normal.	
16	CAL/OFF, B, C/S	0	Audio Selector. H: CAL/Open: NR-OFF, B, C/L: NR-S.	
17	DOLBY C/B/OFF	0 .	Dolby NR Selector. H: C/Open: B/L: OFF.	
18	REC MUTE	0	Recording mute output. L: Mute ON, H: Mute OFF.	
19	POWER OUT	0	Power hold output.	
20	REC/PB	0	Dolby NR mode selector. L: Playback, H: Record.	
21	PASS/MUTE/DOLBY	0	Audio selector. L: Dolby/Open: Mute/H: Pass.	
22	BS/AMS/OFF	0	AMS amp selecto: L: OFF/Open: AMS/H: OFF.	
23	BIAS	0	Bias ON/OFF output. L: OFF, H: ON.	
24	RELAY	0	Relay record/playback selector. L: Record.	
25	B STOP SW	I	Mechanism stop switch for deck-B.	
26	B METAL	I	Deck-B metal tape detection.	
27	B 70/120	I	70/120 μ tape selector (deck-B). L: with claw.	
28	B S-REEL IN	I	Supply reel rotation detection at deck-B.	
29	B S-REEL OUT	0	Supply reel rotation detection at deck-B.	
30	B T-REEL IN	1	Take-up reel rotation detection at deck-B.	
31	B T-REEL OUT	0	Take-up reel rotation detection at deck-B.	
32	B-HALF	I	Half pawl input at deck-B. (A/B converter)	
33	KEY 1	I	KEY 1 input (A/D converter).	
34	KEY 2	I	KEY 2 input (A/D converter).	
35	KEY 3	I	KEY 3 input (A/D converter).	
36	KEY 4	I	KEY 4 input (A/D converter).	
37	VOL IN	I	Record volume input. (A/D converter)	
38	RESET	I	System reset input terminal.	
39	EXTAL	I	System clock oscillator input. (10.0MHz)	
40	EXTAL	0	System clock oscillator output. (10.0MHz)	

Pin No.	Pin name	1/0	Description	
41	Vss	_	Ground.	
42	TX		Not used. (Ground connection)	
43	TEX		Not used. (Ground connection)	
44	METER L	I	Meter L-CH input. (A/D converter)	
45	METER R	I	Meter R-CH input. (A/D converter)	
46	AVREF	I	Reference voltage input for A/D converter.	
47	AVss	_	Ground for A/D converter.	
48	LED (ARL)	0	ARL LED ON/OFF driver. H: ON.	
49	LED (SYNC)	0	CD synchro LED ON/OFF drive. H: ON.	
50	OSC H/L	0	OSC frequency H/L selection for auto calibration.	
51	OSC ON/OFF	0	OSC ON/OFF output for auto calibration.	
52	BIAS CAL 0	0	EQ bias CAL-0 output for auto calibration.	
53	BIAS CAL 1	0	EQ bias CAL-1 output for auto calibration.	
54	BIAS CAL 2	0	EQ bias CAL-2 output for auto calibration.	
55	BIAS CAL 3	0	EQ bias CAL-3 output for auto calibration.	
56	A CAP. M	0	Capastan motor ON/OFF control at deck-A. H: ON.	
57	B CAP. M	0	Capastan motor ON/OFF control at deck-B. H: ON.	
58	CAP. M H/L	0	Capastan motor high/normal selector. L: High.	
59	PITCH. CON ON/OFF	0	Pitch control ON/OFF. H: ON.	
60	LINE MUTE	0	Line mute ON/OFF output. L: Mute.	
61 - 77	P17 - P1	0	VFD segment drive.	
78 - 85	G1 – G8	0		
86	G6, G7	O	VFD grid drive.	
87	G7, G8	0		
88	VFDP	-	VFD power. (- 28V)	
89	V _{DD}	-	Power supply. (+5V)	
90	NC	-	Not used. (VDD connection)	
91	Vss	-	Ground.	
92	REELB+	0	Reel motor (+) output at deck-B.	
93	REEL B -	0	Reel motor (-) output at deck-B.	
94	REELA +	0	Reel motor (+) output at deck-A.	
95	REEL A -	0	Reel motor (-) output at deck-A.	
96	A T-REEL OUT	0	Take-up reel rotation detection at deck-A.	
97	A T-REEL IN	I	Take-up reel rotation detection at deck-A.	
98	A S-REEL OUT	0	Supply reel rotation detection at deck-B.	
99	A S-REEL OUT	I	Supply reel rotation detection at deck-B.	
100	A HALF	I	Half pawl input at deck-A. L: with claw.	

-13 -

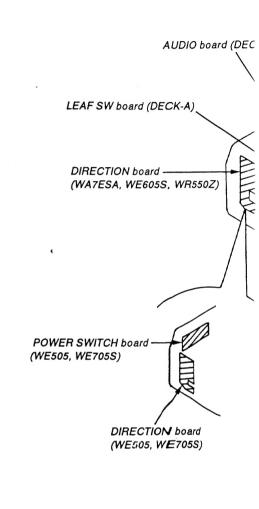
5-1. BLOCK DIAGRAM GOLBY NR AMP JC501 CONTROL LPF 101 J501-1 嶮➾ LINE DUT ĐOLBY S IN L-P-F SWITCH 0101 BOLBY B/C TC-WATESA/WE605S/WE705S/WR C-WE605S/WE705S 8902 SYNCHRO R-CH S936-1 BOLBY NR ON/FILTER ON OFF PB AMP IC31 OOLBY S B901 (AMP IC1 MUTE ORIVE Q501 LPF | TONE NOISE 10503 0502, 503 DSC H/L RV11 (PB LEVEL) HP101 REC/PB HEAB (BECK-B) Ð CONTROL A DUT (BECK-A) +(4) METER L -(16) CAL/OFF+B+C/S TC-WES05/WE7055 KEY 1 CAL/OFF B.C/S S928 PITCH CONTROL 11) BS/MS/OFF PB AMP DECK-A/B RV11 (PB LEVEL) TSEL A/B (1) GP CAL0 (1) GP CAL1 (1) REC CAL0 (3) REC CAL1 HRPE101-1 REC/PB HEAS (BECK-B) KEY 2 5921-927 REC CAL (33 KEY 3 AMS DUT S AMS IN (B) REC MUTE (1) PASS/MUTE/BOLBY (7) BOLBY C/B/OFF 9931. 932. 935 9933. 934 TC-WE6055/WE705S 9938 TC-WA7ESA WE505. WR550Z REC LEVEL REC LEVEL REC EQ IN 7 REC LEVEL MR / MUTE / PASS 5947 DIRECTION MODE NR OFF /B/C RY81 θΕCK-A Ε0 70/720 θΕCK-B Ε0 :∀'7/1 SPEED H/N (RELAY BRIVE 9804 HELAY RV901 AUTO REC LEVEL REMOTE CONTROL RECEIVER RELAY 582 (CrO₂) BECK-A V ... A S-REEL OUT ROTATION DET 1CB1 (DECK-A) 582 (CrO₂) D B 70/120 BOLBY HX-PRO BECK-B-S83 METAL **V**□ (1) B HETAL A T-REEL DUT (%) A T-REEL IN (97) 1681 ROTATION BET ICB2 (BECK-A) BIAS CAL TAPE EQ SWITCH ICBOS RV8: (REC BIAS L-CH) B S-REEL OUT (29 ROTATION BET ICB1 (BECK-B) BIAS CALS REO \triangleleft B T-REEL OUT (B T-REEL IN (ROTATION DET IC82 (DECK-B) S) BIAS CALI POWER ON/OFF 9802 POWER OUT SYSTEM CONTROL 18801 REEL MOTOR BRIVE 1 1C601 (1/2) SWITCHING 9506 BIAS 0SC 051-53 BIAS SWITCH 0805 BIAS REEL MOTOR BRIVE 3 1C601 (2/2) CAPSTAN MOTOR BRIVE 0603 A CAP-H TC-WA7ESA/WES05/WE705S CAPSTAN MOTOR BRIVE Q606 M1 CAPSTAN MOTOR (BECK-B) Đ602 RESET 10802 PITCH CONTROL 9807 TC-WA7:SA WE6055/WR5502 SBOI-1 D_{OFF} TC-WA7ESA/ FT WE605S/WR550Z FM P1-17 CAPSTAN MOTOR HI/NOR 9601 G1-8 8 GLIÐ BRIVE D801 MI CAPSTAN MOTOR (BECK-A) 586 (BECK-A) (HALF) 586 (BECK-B) (HALF) TC-WES05/WE705S RV902 RV601 PITCH CONTROL Q604 TC-WESOS ... 27055 - R-CH : SAME AS L-CH-

X801 (STOP)

-14 -

981 (STOP)

• CIRCUIT BOARDS LOCATION





> : PB (DECK A)

: PB (DECK B)

: REC (DECK B)

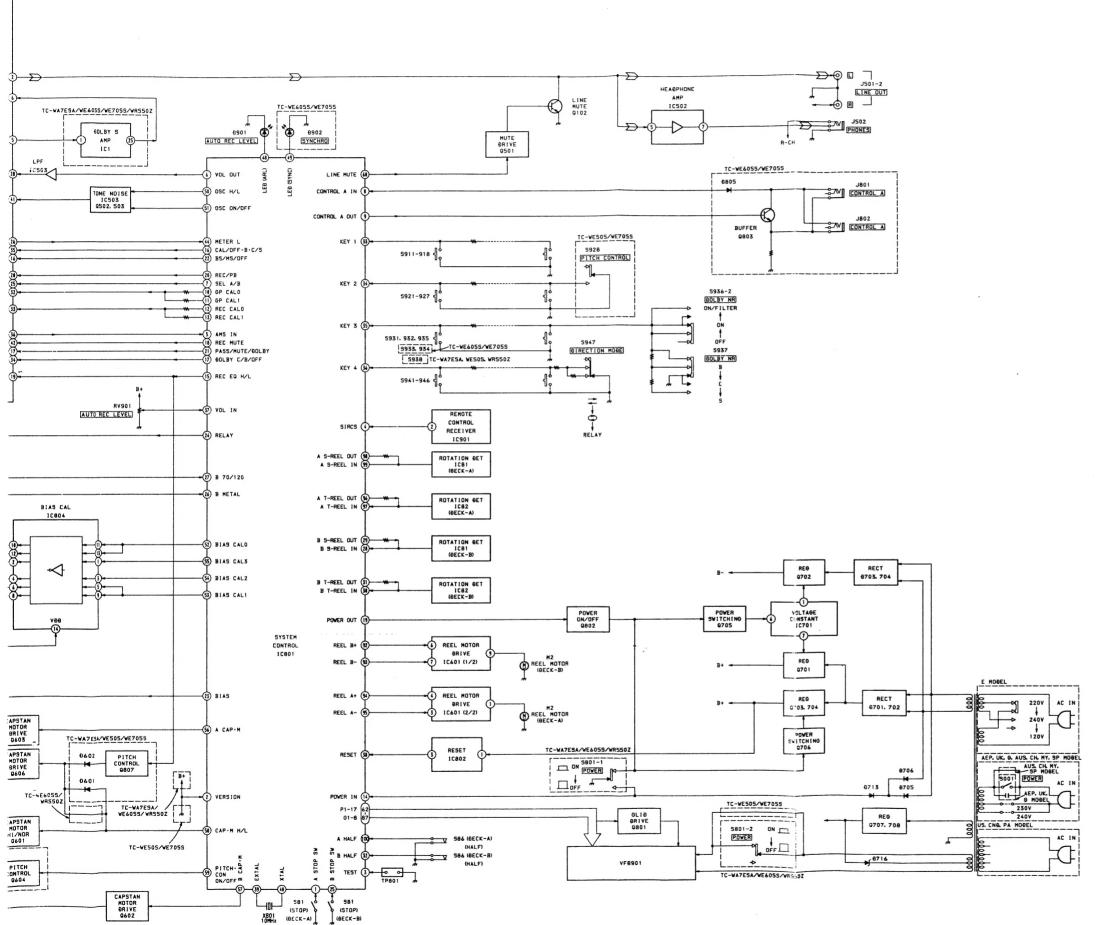
Abbreviation
 CND : Canadian
 G : German
 AUS : Australian

CH : Chinese SP : Singapore

MY : Malaysia

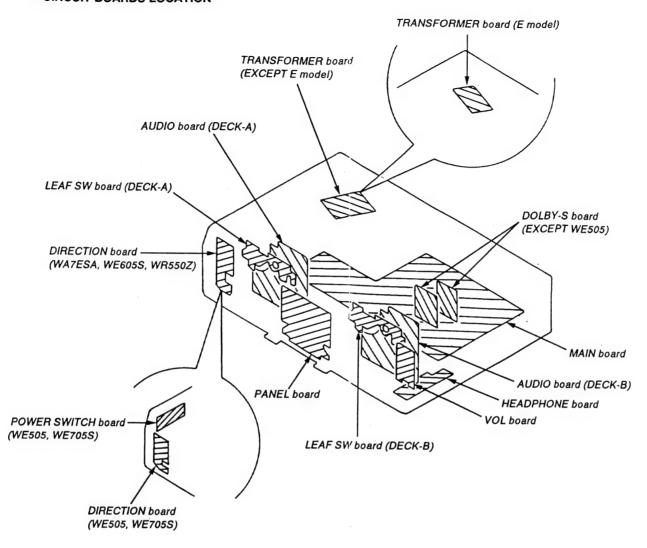
PA : Panama

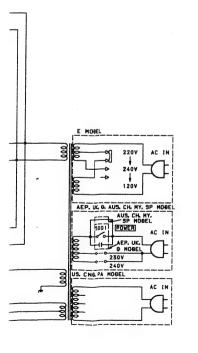
— 15 —



— 14 —

• CIRCUIT BOARDS LOCATION





• Signal path.

> : PB (DECK A)

: PB (DECK B) REC (DECK B)

Abbreviation

CND : Canadian G : German

AUS : Australian

CH : Chinese

SP : Singapore MY : Malaysia

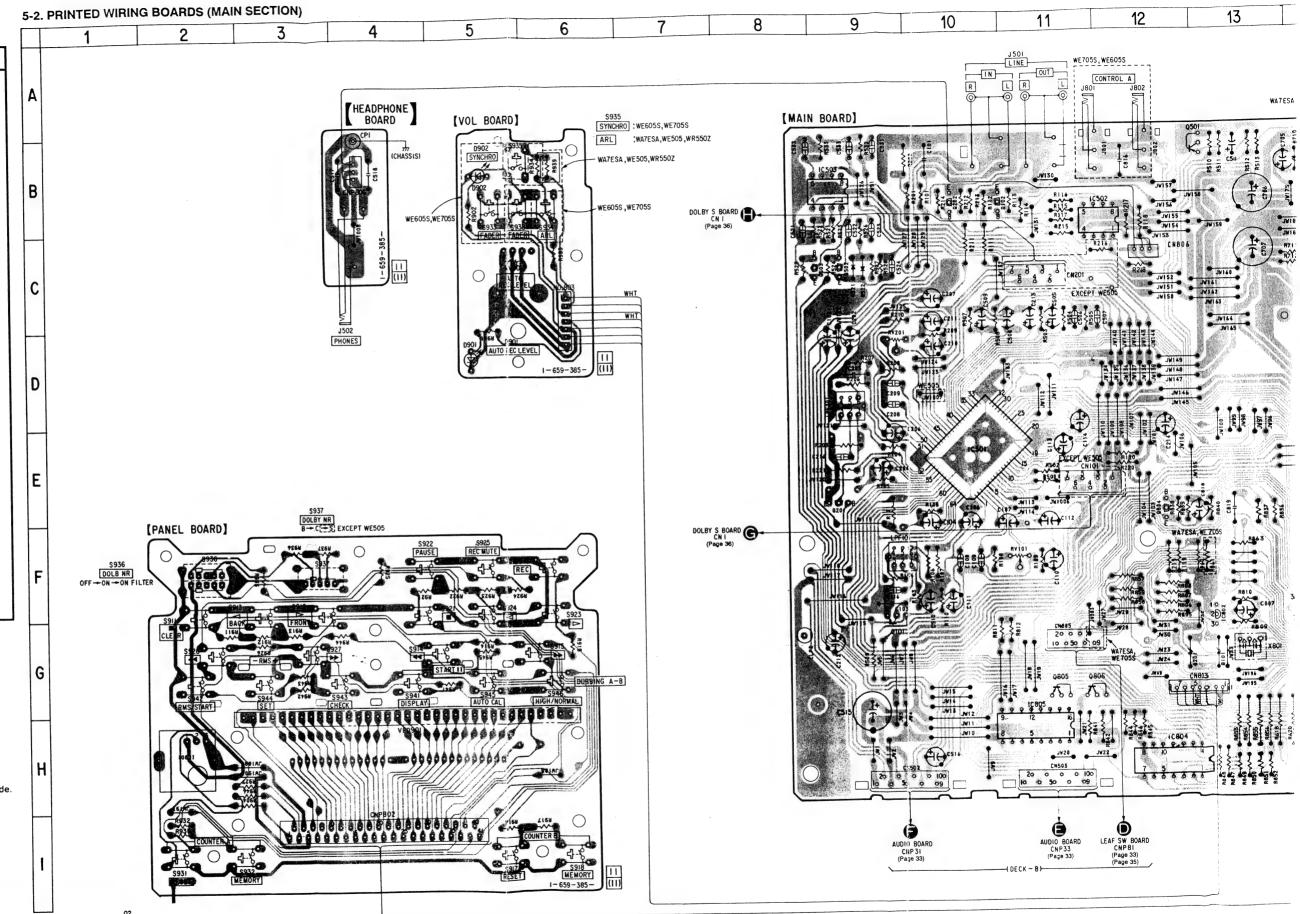
PA : Panama

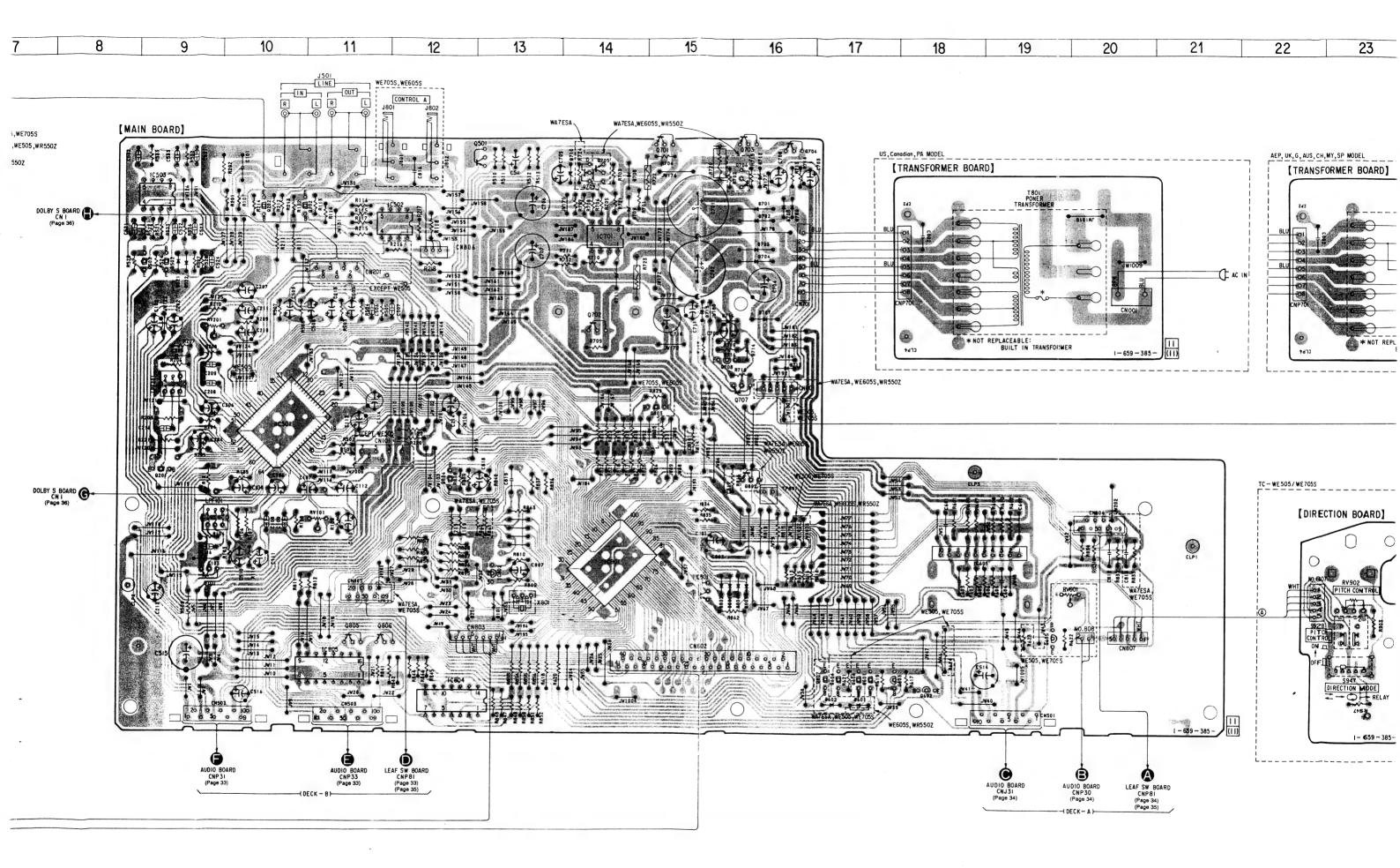
• SEMICONDUCTOR LOCATION

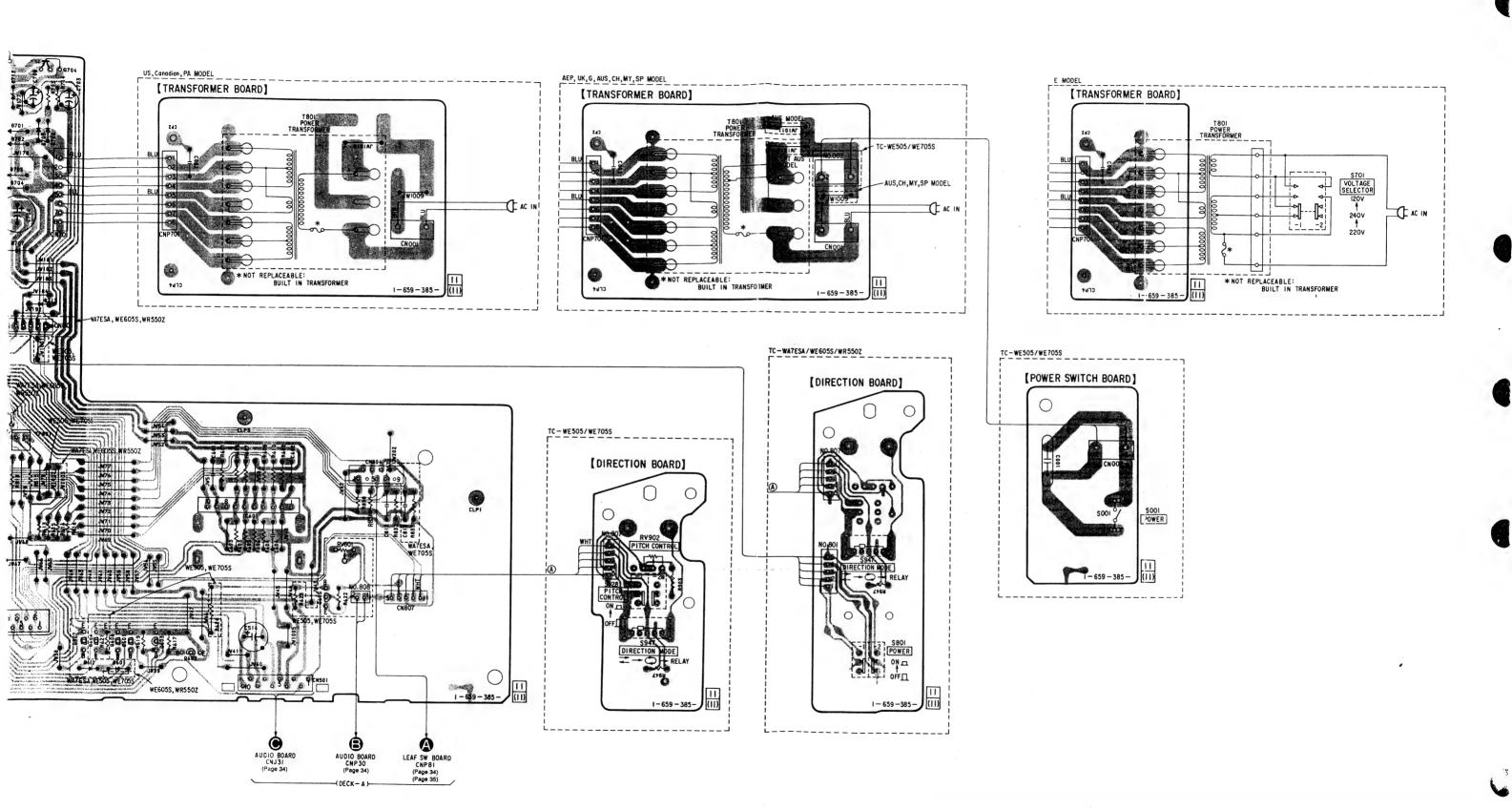
Ref. No.	Location	Ref. No.	Location
D101	G - 13	IC801	F-14
D201	G-13	IC802	G-13
D521	C-9	IC804	H-12
D522	C-9	IC805	H-11
D601	H - 17	IC901	H-2
D602	H - 17		
D701	B-16	Q101	G-9
D702	B-16	Q102	B-10
D703	C-16	Q201	E-9
D704	C - 16	Q202	B-10
D705	D 46	Q501	B-13
D705 D706	B-16 B-16	Q502	G-9
D707	D-16	Q503	G-9
D708	B-14	Q601	H-17
D709	B-14	Q602	H-18
		Q603	H - 17
D710	B-14	0004	U 17
D711	C-14	Q604	H-17
D712	B-16	Q605	G - 19 H - 17
D713	D-16	Q606	B-15
D714	D-16	Q701 Q702	D-14
D715	D-15		
D716	D-15	Q703	B-16
D801	G - 15	Q704	B - 16
D802	G-15	Q705	B - 14
D803	G-16	Q706	B-16
	0.46	Q707	D-16
D804	G-16 E-15	Q708	D-15
D805	D-5	Q709	B-14
D901	B-2	Q801	G-15
D902	6-2	Q802	E-16
		Q802	E-15
IC501	E-10		
IC502	B-12	Q804	E-12
IC503	B-9	Q805	G-11
IC601	F-18	Q806	G-11 H-17
IC701	G - 14	Q807	M-1/

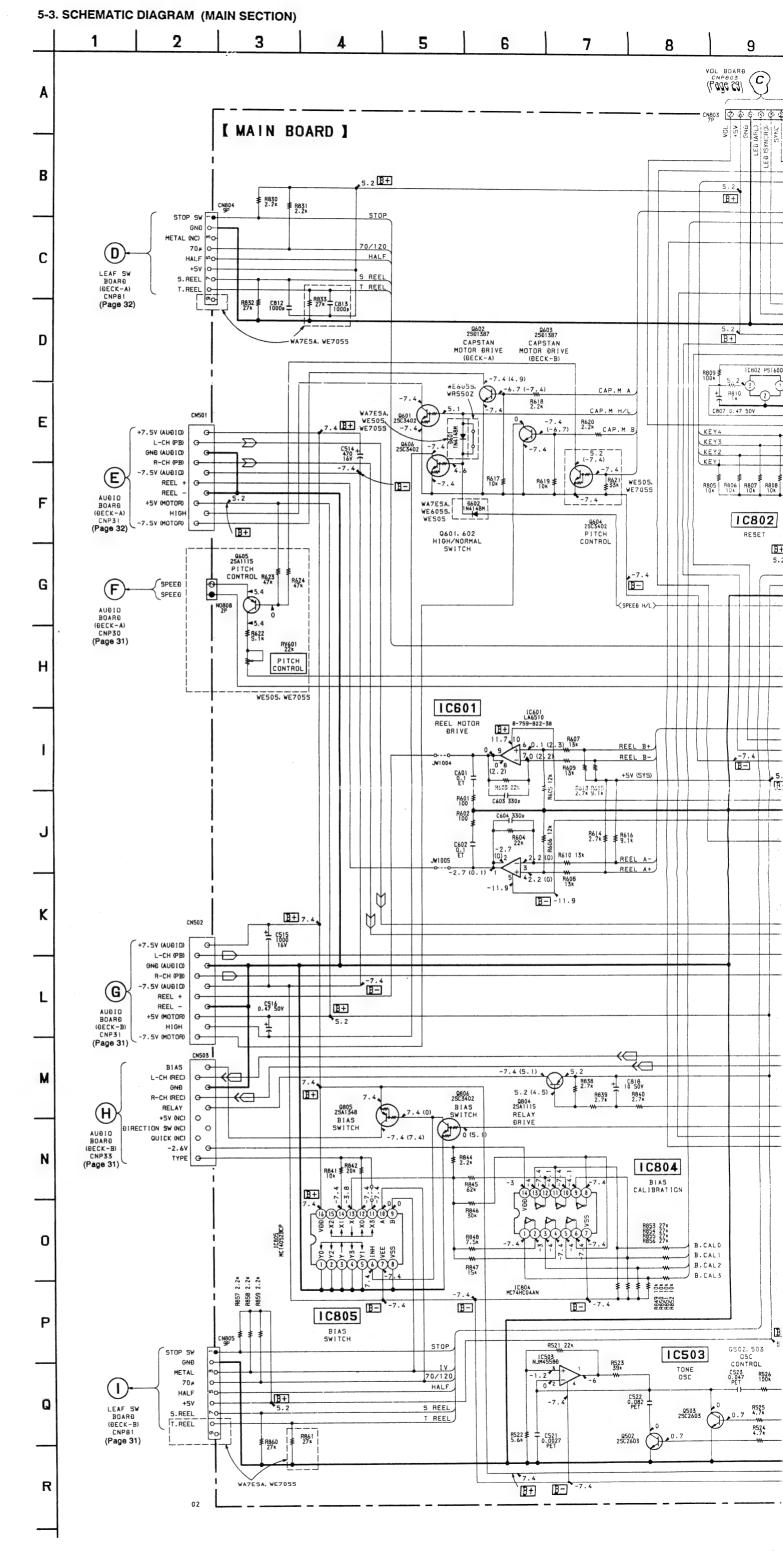
- : parts extracted from the component side.

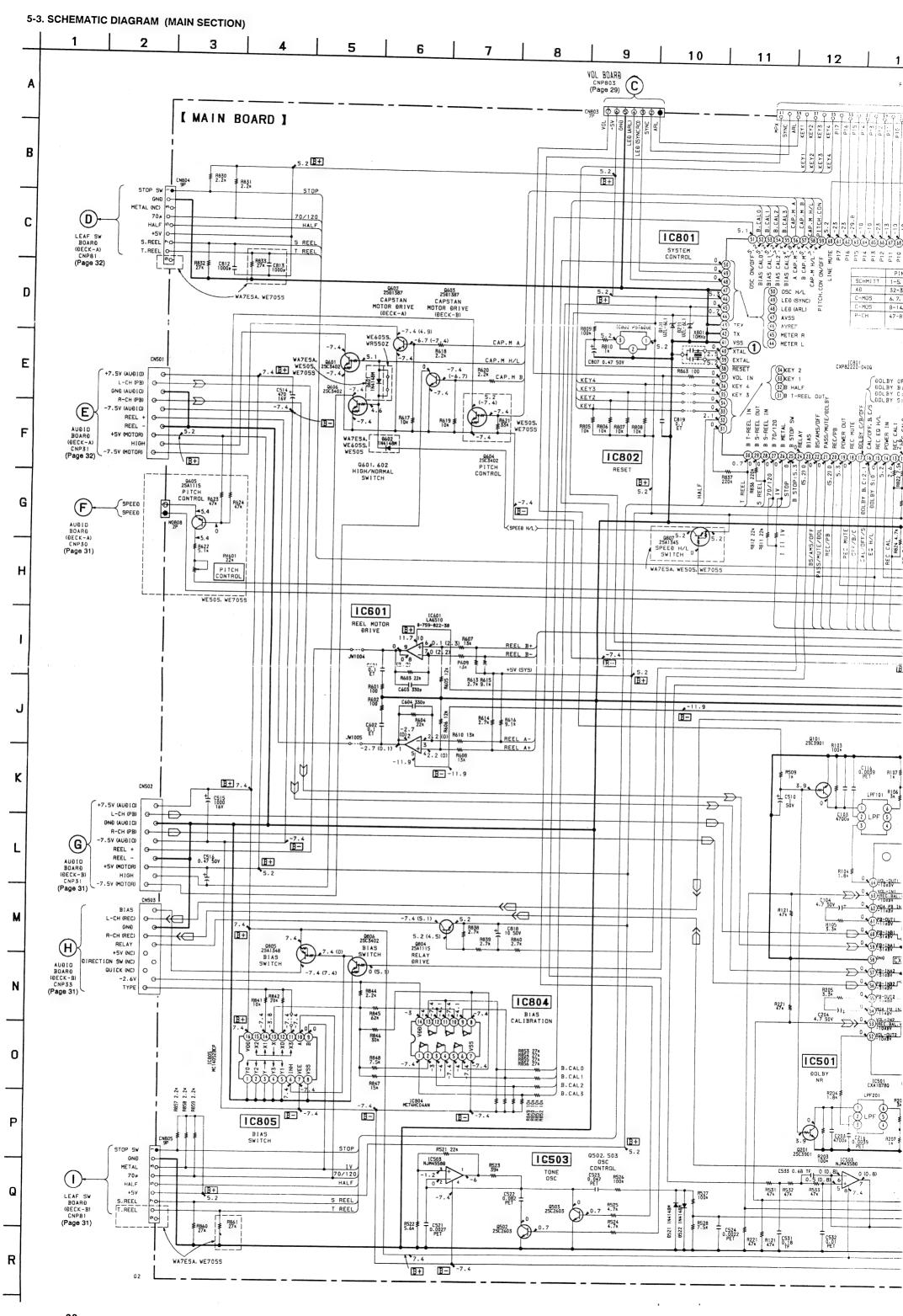
- CND : Canadian
- AUS : Australian
- CH : Chinese
- SP : Singapore
- MY : Malaysia

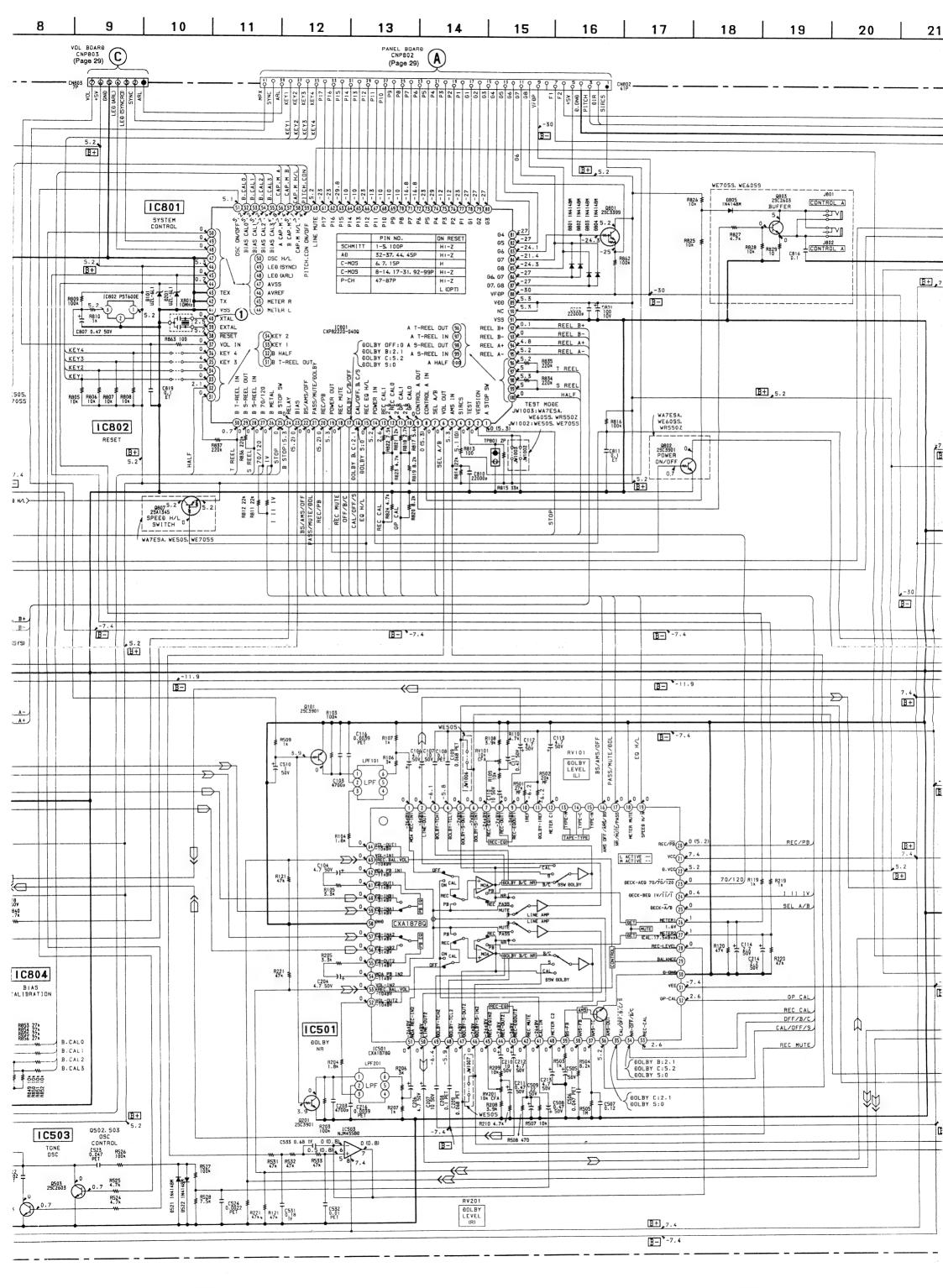


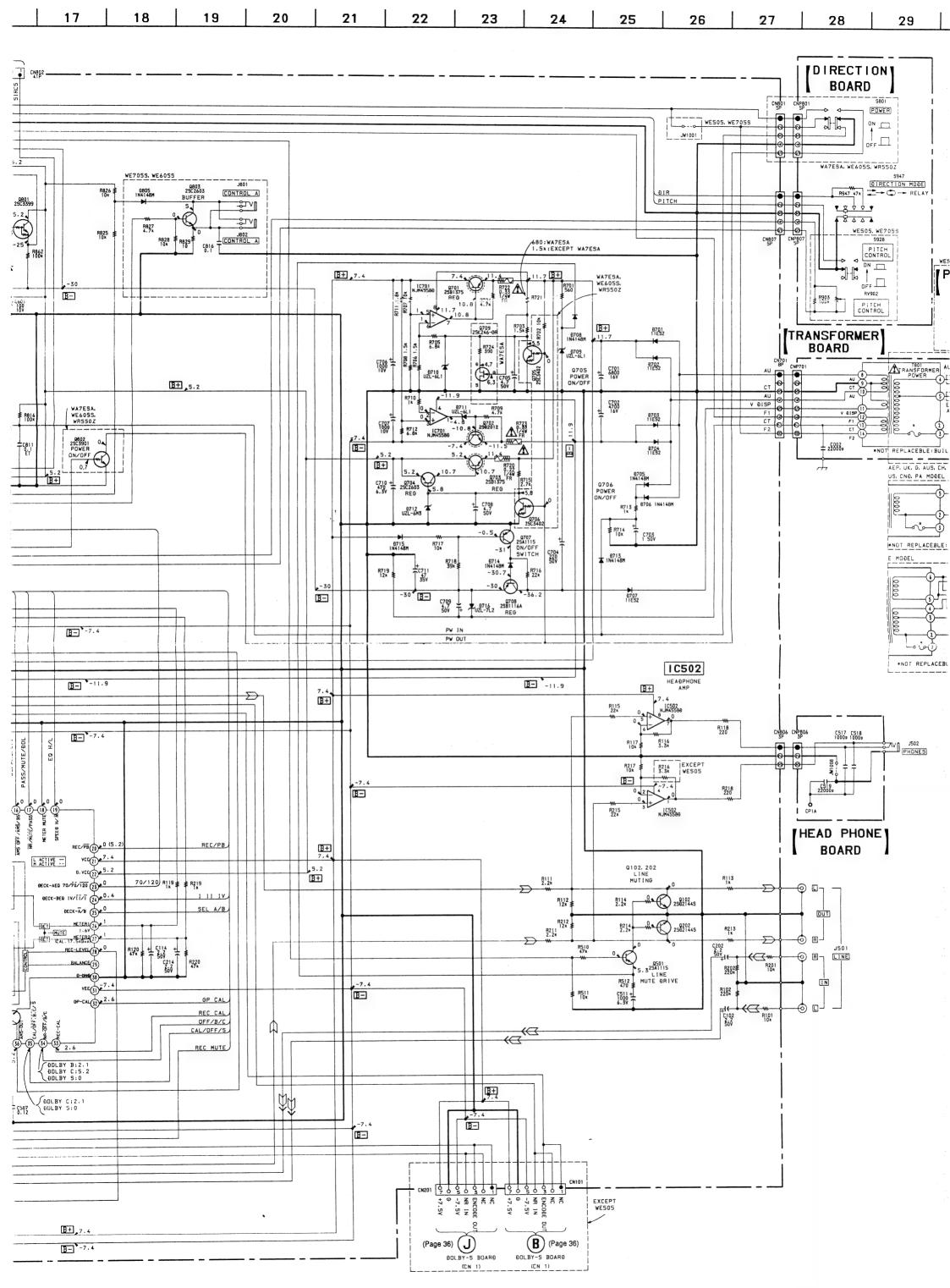


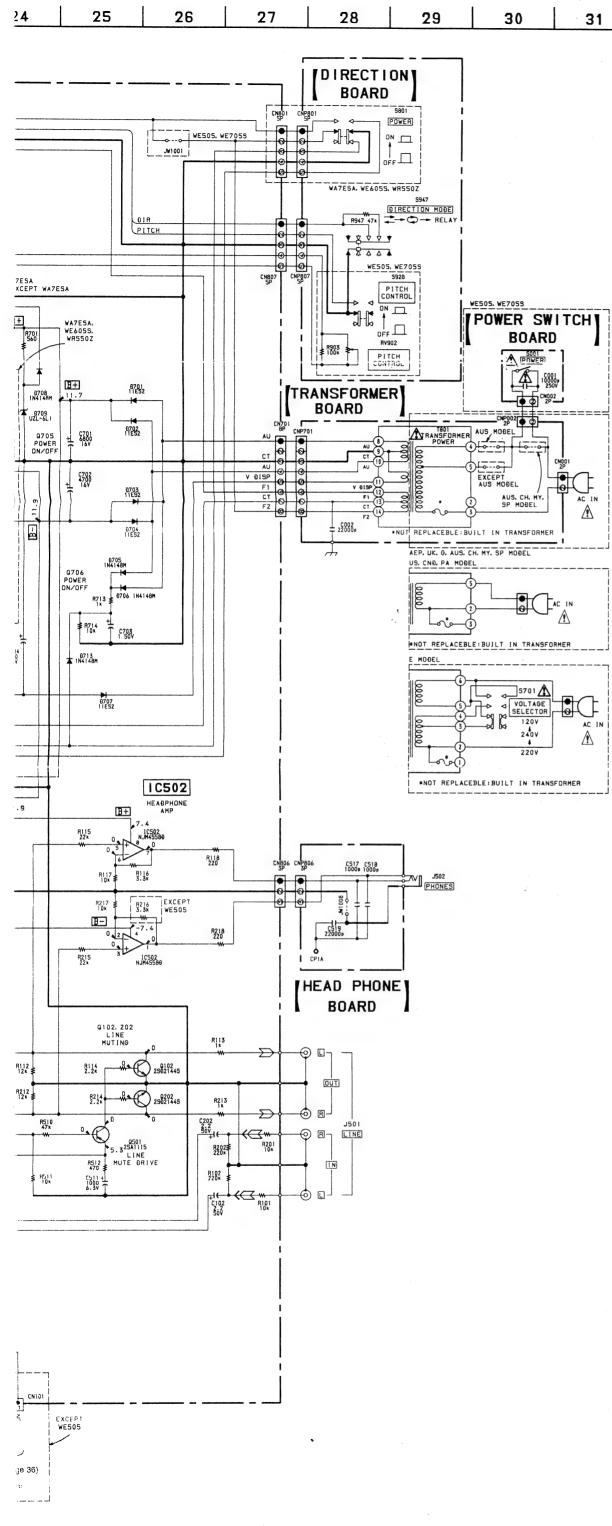




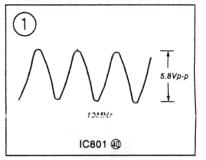








• WAVEFORM - MAIN SECTION -



Note:

- All capacitors are in $\,\mu$ F unless otherwise noted, pF: $\,\mu$ $\,\mu$ F 50WV or less are not indicated except for electrolytics and tantalums.
- \bullet All resistors are in Ω and $1\!\!/_4W$ or less unless otherwise specified.
- \triangle : internal component. · fusible resistor.

Note: The components identified by mark \bigwedge or dotted line with mark \bigwedge

are critical for safety.

Replace only with part

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spéci-

number specified. • **B+** : B+ Line

• **B** - : B - Line

: adjustment for repair.

· Voltage and waveforms are dc with respect to ground under no-signal conditions.

no mark : STOP

(): REC

- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- · Circled numbers refer to waveforms.
- Signal path.

: PB (DECK A)

: PB (DECK B)

: REC (DECK B)

Abbreviation

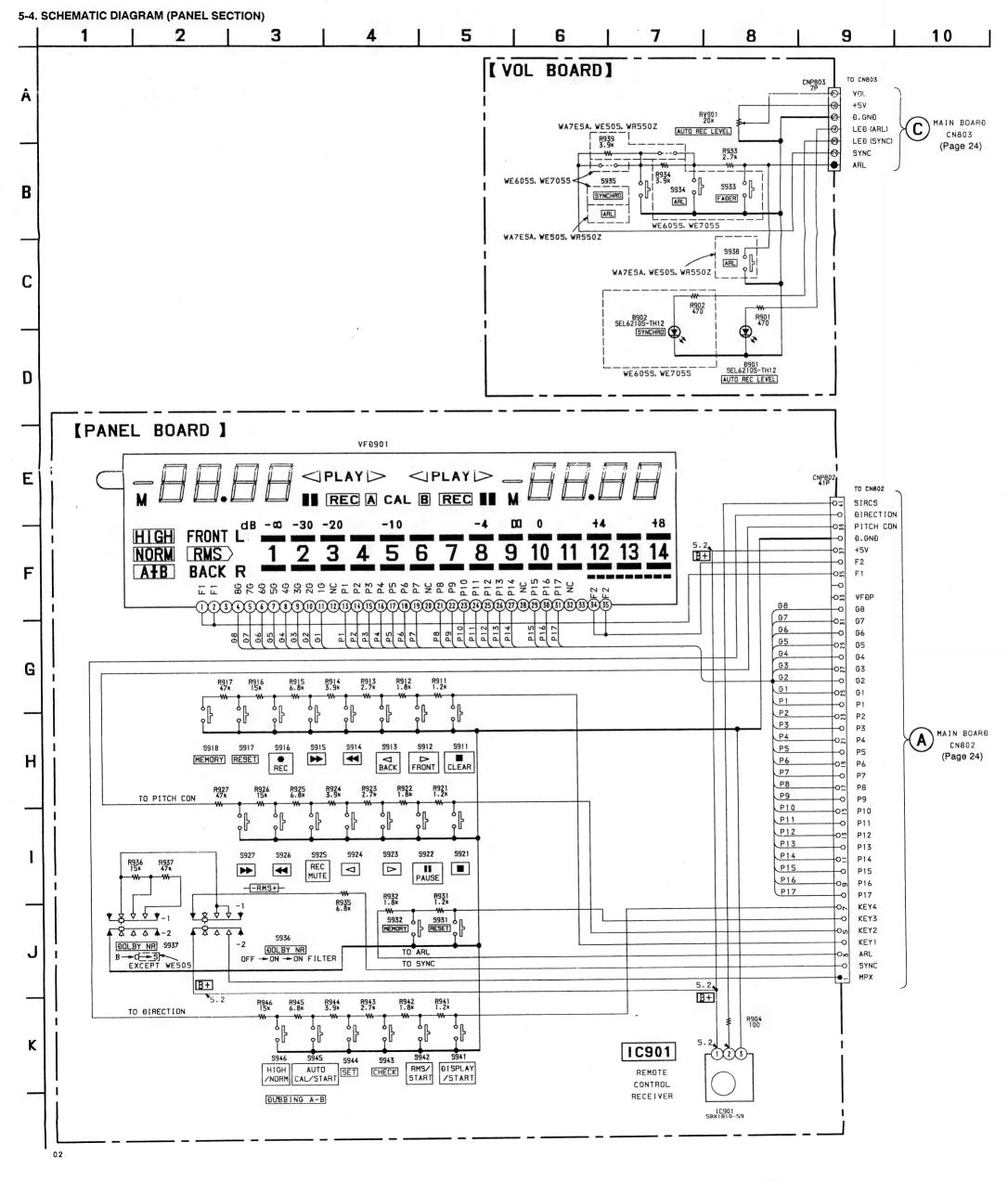
CND : Canadian G : German

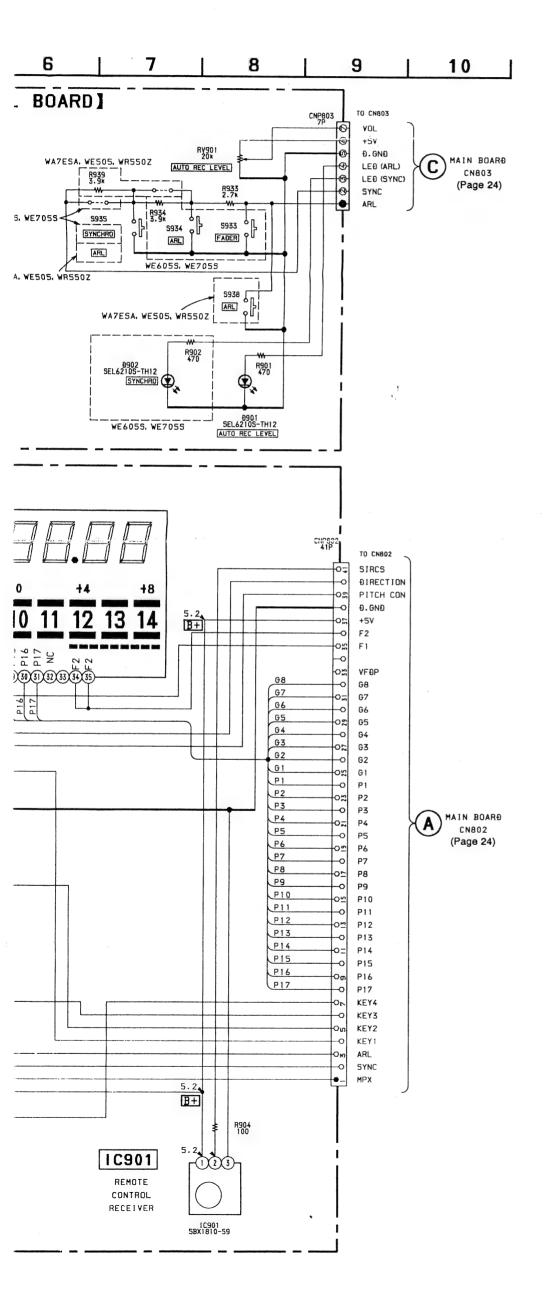
AUS: Australian

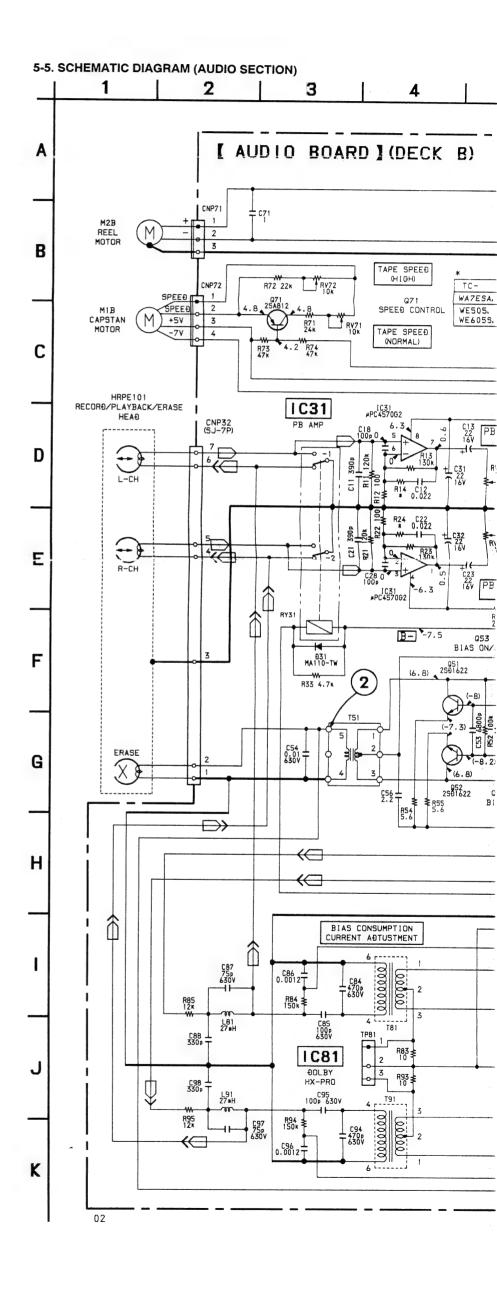
CH : Chinese

: Singapore

: Panama





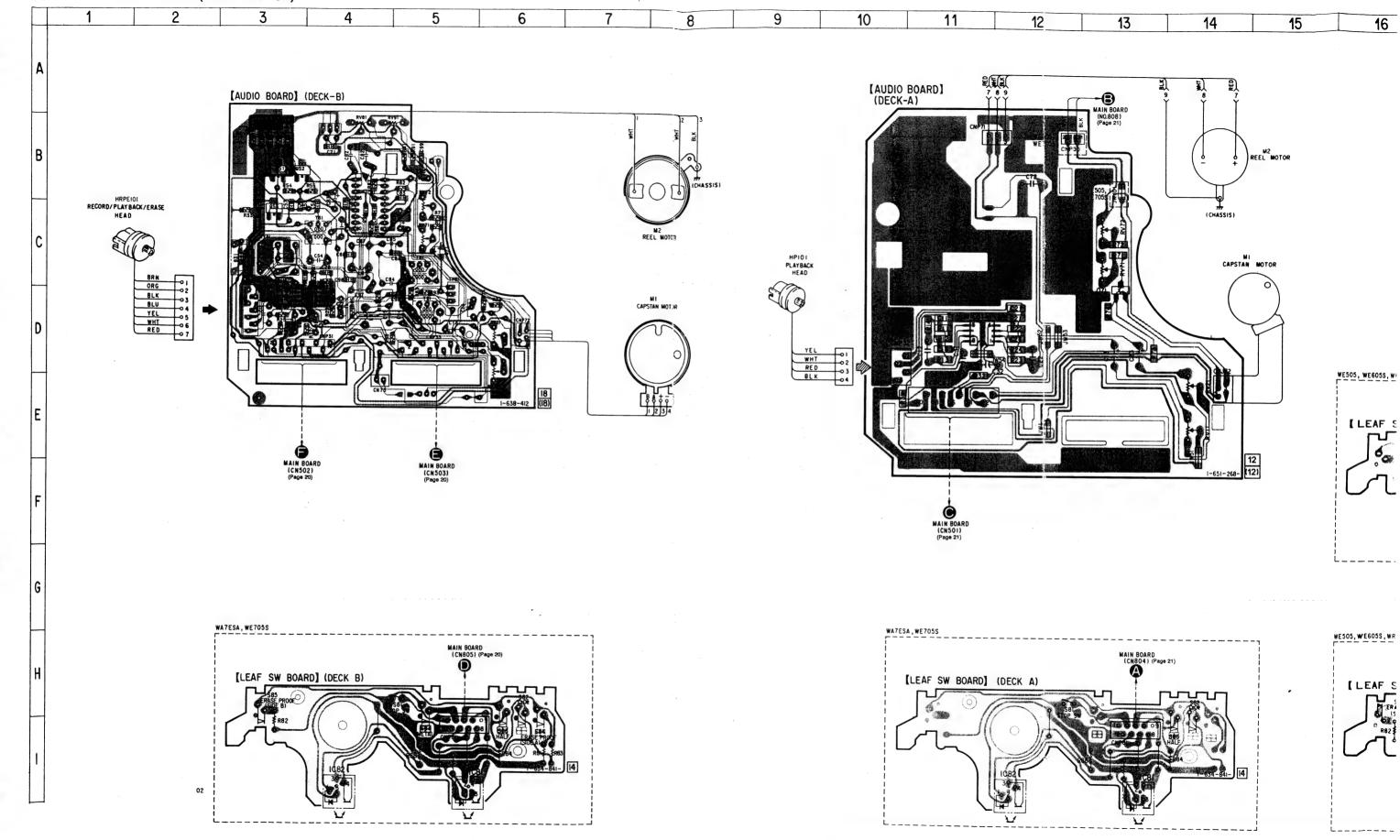


Note:

- All capacitors are in $\,\mu$ F unless otherwise noted. pF: $\,\mu$ $\,\mu$ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\mbox{\em 34W}$ or less unless otherwise specified.
- **B+** : B+ Line
- **B** : B Line
- adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark : STOP () : REC
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.

 Voltage variations may be noted due to normal production
 talographs.
- Circled numbers refer to waveforms.
- Signal path.
- ⇒ : PB (DECK A)
- : PB (DECK B)
 : REC (DECK B)
- wayoforms are do with respect to ground under

TION) 12 13 10 11 6 5 3 [LEAF SW BOARD](DECK B) DIO BOARD (DECK B) STOP ĐET CNP81 <STOP.SW> CrO 2 DET V ≺METAL> METAL DET <70U≻ ERASE PROOF S84 <HALF> 1C82 **└**+5**V**≻ ERASE PROOF V MAIN BOARÐ CN805 ROTATION DET KS. REEL TAPE SPEED HALF DET V IC81 MJL5165K-B ____8 R72 22k RV72 (Page 23) R14. 24 TC-WA7ESA, WE7055 6.2K 971 SPEEÐ CONTROL (T.REEL) WE505. WE605S. WR550Z MJL5165K-B TAPE SPEED (NORMAL) IC81 WA7ESA, WE705S [AUDIO BOAF WA7ESA, WE705S ROTATION DET WE505, WE705S R31 220 IC31 IC31 #PC4570G2 I CNP30 B+ 7.4 PB AMP (F) PB LEVEL MAIN BOARD B-CNP31 RVII 1k (Page 23) B+ 7.4 +7.5V L CH (PB) -02 CNP71 GNĐ M2A R CH (PB) REEL MOTOR 2 -7.4 $\left(\mathbf{G}\right)$ -7.50 3 REEL+ -06 MAIN BOARÐ CN502 (Page 23) REEL-+5V CNJ72 SPEED нюін 25A812 R71 -7.5V (MOTOR SPEED CAPSTAN B- -7.5 Q53 BIAS ON/OFF (6.7) 25B16225 2.2 R73 47k R74 47K 831 MA110-TW (6.8) 2SB1622 2 R33 4.7k B+ HP101 PLAYBACK HEAĐ CNP32 C54 0.01 630V C11 - R11-2501622 Q51, 52 C21 T R21 CNP33 B- -7.4 BIAS L CH (REC) \leftarrow R-CH \leftarrow GNÐ R CH (REC) \longleftrightarrow (H)RELAY 06 MAIN BOARD R14. 24 CN503 (Page 23) WA7ESA, WE7055 6.8K BIAS CONSUMPTION CURRENT AUTUSTMENT 08 WE505, WE6055, WR550Z -7.4 ---€9 -2.67 C81 0.01 B-**€**10 TYPE (1)0.0012T CNP75 REC BIAS C85 100p 630V T81 C99 0.47 ⊢I⊢ IC81 ĐOLBY HX-PRO 7.4 100° 630V REC BIAS R-CH C97 75P 630V R92 33k RB1 ₹ 0.0012 0.01



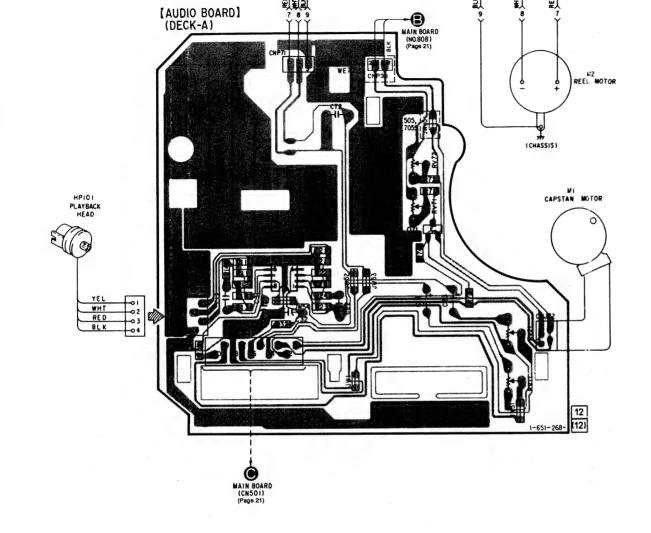
														1 40		
					T T			l		1 4	4.0	1 17	18	1 11	1 1/1	_
- 1			1	_	40	4 4	40	1 47		1 46	1 16	1 1/	1 18	19		•
- 1	7	(1)	1	()	10	าา	1 17	1 17	1 14	1 11	1 1()	1 11	10	13		
	/		1	ч	((()	1.1	1 1/	1 . 10	1 17	1 10	10					
1			- 1	J	1 10 1		1000	1	1							

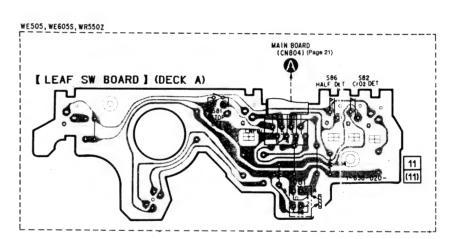
• SEMICONDUCTOR LOCATION (DECK-A)

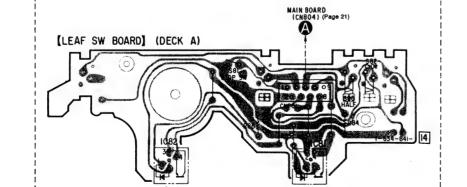
	(DECK-A)
Ref. No.	Location
IC31	D-11
IC81	F-18
(LEAF SW) IC81	l - 13
(LEAF SW) IC82 (LEAF SW)	l - 12
Q71	C - 13

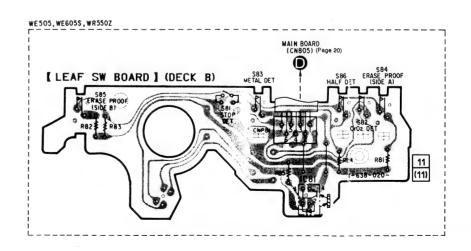
(DECK-B)

Ref. No.	Location
D31	C - 3
IC31 IC81 (AUDIO) IC81 (LEAF SW) IC81 (LEAF SW) IC82 (LEAF SW)	D-4 B-4 I-5 I-18
Q51 Q52 Q53 Q71	B-3 B-3 C-3 C-5





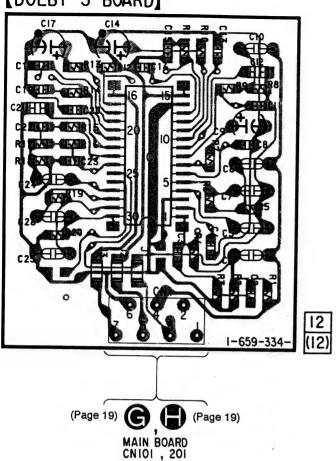




- - : Pattern on the side which is see n.
- pattern of the rear side.

5-7. PRINTED WIRING BOARDS (DOLBY SECTION)
(EXCEPT WE505)

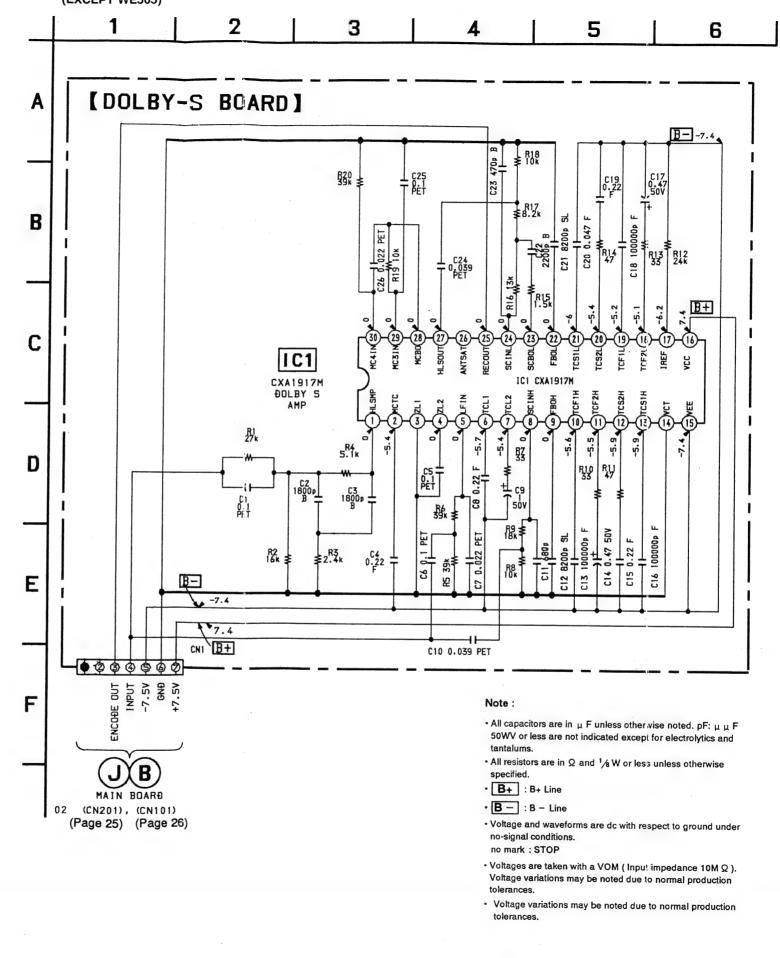
[DOLBY S BOARD]

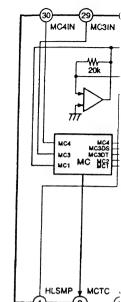


Note:

- O---: parts extracted from the component side.
- Pattern on the side which is seen.

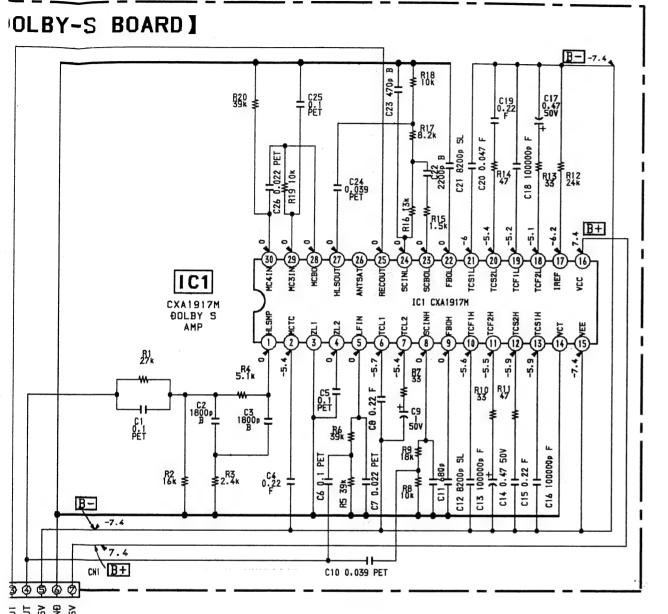
5-8. SCHEMATIC DIAGRAM (DOLBY SECTION) (EXCEPT WE505)





1), (CN101) 25) (Page 26)

2 3 4 5 6

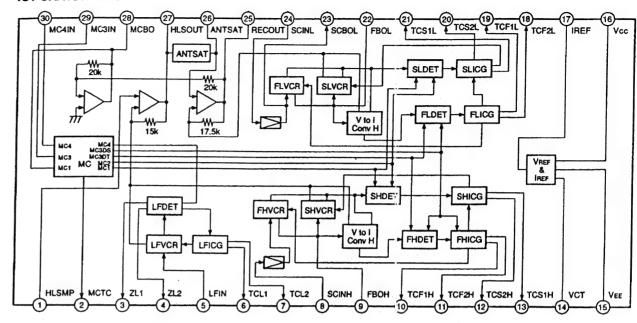


Note:

- All capacitors are in $\,\mu$ F unless otherwise noted. pF: $\,\mu$ $\,\mu$ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^{1}/_{6}$ W or less unless otherwise specified.
- B+ Line
- **B** : B Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark : STOP
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Voltage variations may be noted due to normal production tolerances.

• IC BLOCK DIAGRAM

IC1 CXA1917M-T6



SECTION 6 EXPLODED VIEWS

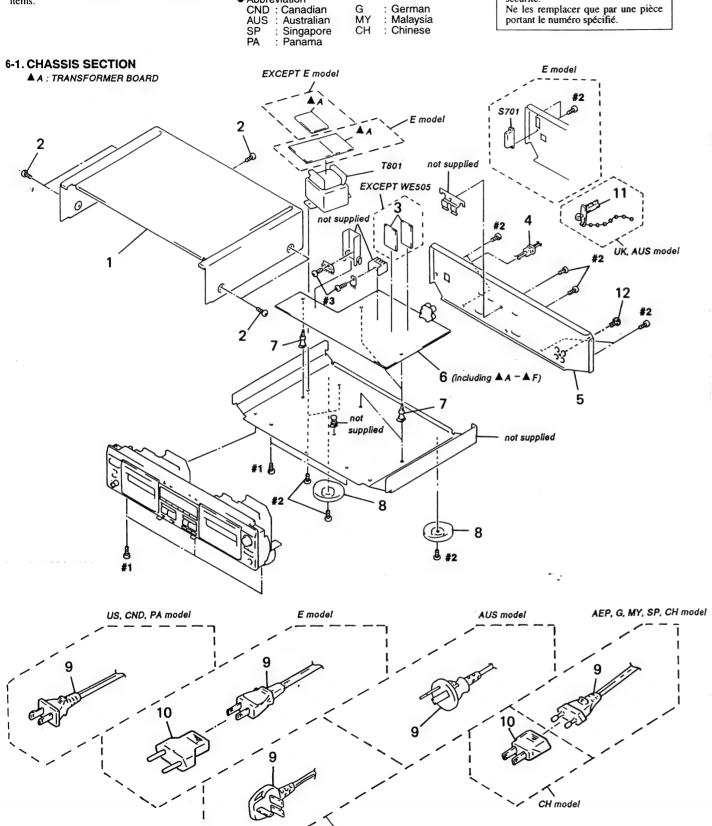
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list. Abbreviation

CND : Canadian
AUS : Australian
SP : Singapore
PA : Panama

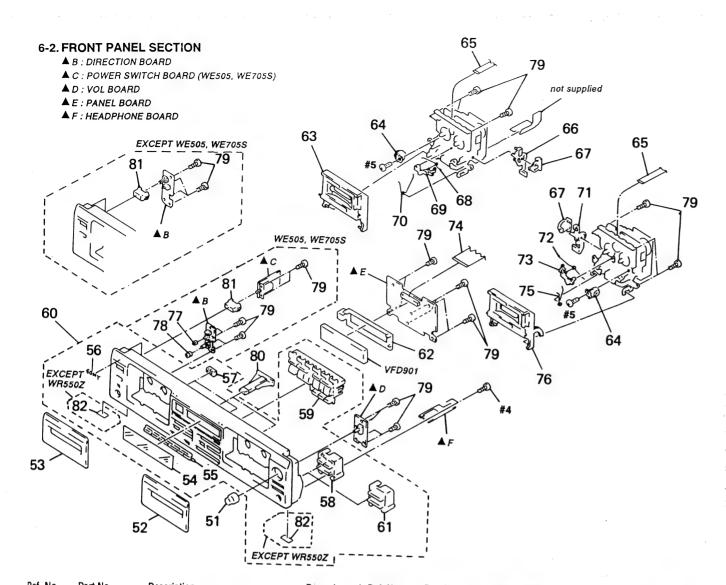
The components identified by mark Δ or dotted line with mark Δ are critical for safety.

Replace only with part number specified. Les composants identifiés par une marque \(\Delta \) sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 1	3-931-432-01	CASE (410726) (WA7ESA,WE605S	WR550Z)	* 6	A-2007-494-A	MAIN BOARD, COMPLETI	E (WE505)
* 1	4-943-088-41	CASE (WE505,WE705S)	,,	* 6	A-2007-495-A	MAIN BOARD, COMPLETI	E (WE705S)
2	3-363-099-01	SCREW (CASE 3 TP2)(WE505,WE7	(05S)	* 6	A-2007-513-A		
2	3-704-366-01	SCREW (CASE) (M3X8) (WA7ESA,		* 6	A-2007-547-A	MAIN BOARD, COMPLETI	E (WR550Z)
2	3 704 000 01	3011211 (01132) (111113) (11111 2011)	WR550Z)	* 6	A-2007-576-A	MAIN BOARD, COMPLETI	E (WE605S:MY,SP,CH)
* 3	A-2007-481-A	DOLBY-S BOARD, COMPLETE (EXC	,	* 7	3-346-265-31	HOLDER, PC BOARD	
* 4	3-703-244-11	BUSHING (2104), CORD (AEP,UK,G	,AUS, MY,SP, CH,)	8	X-3371-435-1	FOOT ASSY (F50150S) (A	EP,UK,G,E,AUS,MY,SP, CH)
4	3-703-571-11	BUSHING (S) (4516), CORD (US,CI		8	X-3371-436-1	FOOT ASSY (F50145S) (L	JS,CND,PA)
* 5	3-920-372-21	PANEL, BACK (WE505:UK)	,,	▲ 9	1-551-188-99	CORD, POWER (E)	,
* 5	3-931-244-01	PANEL, BACK (WE605S:US,PA)		△ 9	1-558-945-21	CORD, POWER (POLAR.S	SPT-1) (US,CND,PA)
* 5	3-931-244-11	PANEL, BACK (WE605S:CND)		1	1-575-651-21	CORD, POWER (AEP,G,M	Y,SP,CH)
•		•					
* 5	3-931-244-21	PANEL, BACK (WE605S:E)		1	1-696-586-11	CORD, POWER (UK)	
* 5	3-931-244-31	PANEL, BACK (WE605S:AUS)		1	1-696-845-11	CORD, POWER (AUS)	
* 5	3-931-244-41	PANEL, BACK (WE605S:MY,SP,CH)		△ 10	1-569-007-11	ADAPTER, CONVERSION	2P (E)
* 5	3-931-245-01	PANEL, BACK (WE505:AEP,G)		△ 10	1-569-008-21	ADAPTER, CONVERSION	2P (CH)
* 5	3-931-245-21	PANEL, BACK (WR550Z)		11	4-956-370-12	BAND, PLUG FIXED (UK,	AUS)
* 5	3-931-246-01	PANEL, BACK (WE705S)		12	3-704-515-01	SCREW (BV,RING) (WE50	05,WE705S)
* 5	3-932-543-01	PANEL, BACK (WA7ESA:US)		△ S701	1-692-155-11	SELECTOR, POWER VOL	
* 5	3-932-543-11	PANEL, BACK (WA7ESA:CND)					SELECTOR) (E)
* 6	A-2007-491-A	MAIN BOARD, COMPLETE (WE605	S:US.CND.	△ T8:11	1-427-782-11	TRANSFORMER, POWER	(US,CND,PA)
Ū	71 2001 401 71	1111111 2011112, 001111 2212 (11200	PA)	△ T801	1-427-783-11	TRANSFORMER, POWER	(AEP,UK,G,AUS,MY,SP,
* 6	A-2007-492-A	MAIN BOARD, COMPLETE (WE605	,			•	CH)
ŭ			,	▲ T801	1-427-784-11	TRANSFORMER, POWER	(E)
* 6	A-2007-493-A	MAIN BOARD, COMPLETE (WE605	S:AUS)				



Ket. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remar
51	3-909-661-21	KNOB (REC) (WE505, WE7055	S)	64	3-354-963-01	DAMPER	
51	3-931-430-11	KNOB (REC) (WA7ESA, WE60	5S,WR550Z)	65	1-769-882-11	WIRE (FLAT TYPE) (7 CORE)	
52	X-3371-367-1					(WE505,WE605S,WR550Z)	
			(EXCEPT WA7ESA)	65	1-769-912-11	WIRE (FLAT TYPE) (9 CORE)	
52	X-3371-572-1					(WA7ESA,WE705S)	-
53	X-3371-366-1	LID (HF) ASSY (A), CASSETTE		* 66	3-354-953-01	LEVER (LOCK LEVER L)	
			(EXCEPT WA7ESA)	67	3-354-957-01	JOINT (LOCK LEVER)	
53	X-3371-571-1	LID (ES) ASSY (A), CASSETTE	(WA7FSA)	68	3-354-961-01	SPRING (EJ SAFTY SPRING L)	
54	3-931-248-01	WINDOW (M) (EXCEPT WA7E	SA:CND)	69	3-354-955-01	LEVER (EJ SAFTY LEVER L)	
54	3-931-248-31			70	4-959-231-11	SPRING (L), TORSION	
55	3-931-237-01	BUTTON (RMS-6)		* 71	3-354-954-01	LEVER (LOCK LEVER R)	
56	4-963-404-21	EMBLEM (5-A), SONY		72	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, _	0 004 002 01	or rima (Lo oAr 11 or rima 11)	
57	3-931-243-01	BUTTON (COUNTER)		73	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
58	X-3371-370-1	BUTTON (SYNCHRO) ASSY (V	VE705S.WE605S)	74	1-769-598-11	WIRE (FLAT TYPE) (41 CORE)	
59	3-931-239-01	BUTTON (SR)	, , , , , , , , , , , , , , , , , , , ,	75	4-959-232-11	SPRING (R), TORSION	
60	X-3371-355-1	PANEL (HF) ASSY, FRONT		76	X-4945-946-1	HOLDER (R) ASSY, CASSETTE	
		(WE605S:US,CND,PA)		77	3-380-952-21	BUTTON (5X5)	
60	X-3371-356-1	PANEL (HF) ASSY, FRONT		• •	0 000 002 21	2011011 (0/0)	
		(WE605S:E,AUS,MY,SP,CH)		78	3-931-378-01	KNOB (F10) (WE505,WE705S)	
				79	4-951-620-01	SCREW (2.6X8), +BVTP	·
60	X-3371-357-1	PANEL ASSY, FRONT (WR550)	Z)	80	3-377-328-11	BUTTON (EJECT) (WE505,WE705S	()
60	X-3371-358-1	PANEL ASSY, FRONT (WE505)		80	3-931-427-11	BUTTON (EJ) (WA7ESA,WE605S,W	
60	X-3371-361-1	PANEL ASSY, FRONT (WE7058		81	3-354-932-01	BUTTON (POWER) (WE505,WE705	
60	X-3371-567-1	PANEL (ES) ASSY, FRONT (WA	A7ESA:US)				,
60	X-3371-568-1	PANEL (ES) ASSY, FRONT (WA		81	3-931-429-01	BUTTON (POWER) (WE605S, WR55	507)
		•	,	81	4-922-921-31	BUTTON (POWER) (WA7ESA)	,
61	3-931-242-01	BUTTON (ARL) (WA7ESA, WE5	05,WR550Z)	82	4-977-358-01	CUSHION (8X12.5) (EXCEPT WR55	507)
62	3-377-337-11	HOLDER (FL)		VFD901		INDICATOR TUBE, FLUORESCENT	/
63	X-4945-947-1	HOLDER (L) ASSY, CASSETTE					

6-3. MECHANISM SECTION 1 /TC-WE605S/WR550Z:TCM-190RA12CL\ TC-WE505 TC-WA7ESA : TCM-190RA14CL : TCM-190RA17CL DECK-A TC-WE705S : TCM-190RA18C DECK-B (TC-WA7ESA/WE705S : TCM-190RB11C TC-WE505/WE605S/WR550Z : TCM-190RB12CL) 113 112 116 117 not supplied HRPE101 : DECK-B HP101 : DECK-A 103

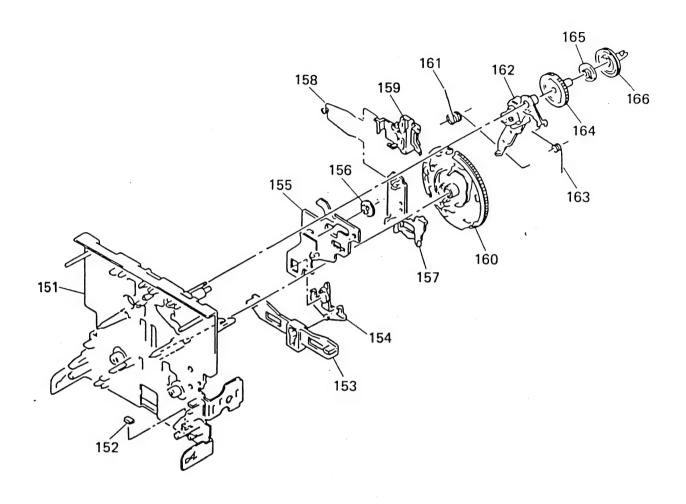
Ref. No.	Part No.	Description Ren	mark Re	ef. No.	Part No.	Description	Remark
101	X-3366-047-1	LEVER (PINCH F) ASSY		116	X-3367-629-1	FLYWHEEL (FWD) ASSY	
102	3-356-713-01	WASHER		117	3-575-321-00	RETAINER, THRUST, CAPSTAN	
103	3-907-362-01	SPRING, TORSION		118	3-359-436-11	BASE (THRUST RETAINER), FITTII	IC.
104	X-3366-970-1	TABLE ASSY, REEL (WE505, WE605S, WR	550Z)	119	3-359-414-01	SCREW (+PTPWH 2X23)	va
104	X-3366-971-1	TABLE ASSY, REEL (WA7ESA, WE705S)	*	120	A-2007-040-A	AUDIO BOARD, COMPLETE (DECI	(B)
. 105	3-362-308-01	CAP (REEL)	*	120	A-2007-266-A	AUDIO BOARD, COMPLETE (DECI	(A) (MEROS)
106	3-356-714-01	WASHER			71 2007 200 71	NODIO DONIE, COMI ELTE (DECI	WR55(Z)
107	X-3366-048-1	LEVER (PINCH R) ASSY	. *	120	A-2007-339-A	AUDIO BOARD, COMPLETE (DECK	,
108	X-3366-971-1	TABLE ASSY (B), REEL	*	120	A-2007-479-A	AUDIO BOARD, COMPLETE (DECH	
109	3-359-424-01	GEAR (REV GEAR)	*	120	A-2007-480-A	AUDIO BOARD, COMPLETE (DECK	(A) (WE705)
				121	1-638-983-11	MOTOR FLEXIBLE BOARD	(A) (WE100)
110	3-359-430-01	SPRING (CASSETTE RETAINER), LEAF				WO TOTT EETHOLE BOTTING	
111	3-388-848-01	SCREW (P2X6) (B TIGHT)		122	3-355-808-02	PINCH ROLLER	
* 112	1-634-841-14	LEAF SW BOARD (DECK A) (WA7ESA, WE		HP101	A-2004-526-A	DECK ASSY, HEAD (PLAYBACK) (V	VE505
* 112	1-638-020-11	LEAF SW BOARD (DECK A) (WE505,WE60	05S,				05S.WR550()
			/R550Z)	HP101	A-2004-548-A	DECK ASSY, HEAD (PLAYBACK) (V	
* 112	1-634-841-14	LEAF SW BOARD (DECK B) (WA7ESA,WE	705S)			, , = = (, = = = = = , (,	WE705)
* 112	1-638-020-11	LEAF SW BOARD (DECK B) (WE505,WE60	058,	HRPE10	1A-2004-527-A	DECK ASSY, HEAD (RECORD / PLA	
		W	'R550Z)	M1	X-3365-377-2	MOTOR ASSY (CAPSTAN)	ZIVIOL)
113	3-359-466-01	BELT (FR), SQUARE				(5.0.57.00)	
114 115	X-3367-630-1	FLYWHEEL (REV) ASSY		M2	X-3365-501-2	MOTOR ASSY (REEL)	
110	3-359-417-01	BELT (FLAT), CAPSTAN	1				

6-4. MECHANISM SECTION 2

TC-WE605S/WR550Z : TCM-190RA12CL \ TC-WE505 : TCM-190RA14CL : TCM-190RA17CL **DECK-A**

TC-WA7ESA TC-WE705S : TCM-190RA18C

DECK-B (TC-WA7ESA/WE705S : TCM-190RB11C TC-WE505/WE605S/WR550Z : TCM-190RB12CL)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Damari
151 152 153 154 * 155	X-3359-415-1 3-359-469-01 3-359-425-01 3-359-426-01 3-359-415-01	SPACER SLIDER (REVERSE SLIDER)		159 * 160 161 162 163	3-359-429-01 3-936-483-01 3-359-456-01 X-3366-569-1 3-924-185-11		Remark On
156 157 158	3-359-448-01 3-359-427-01 3-359-454-01	GEAR (TRIGGER) SLIDER (LEVERSE SLIDER) SPRING, TORSION		164 165 166	3-359-419-11 3-359-421-01 3-359-418-01	GEAR (FR GEAR) CLUTCH (REEL DISK) PULLEY (FR PULLEY)	

SECTION 7 **ELECTRICAL PARTS LIST**

AUDIO (DECK A)

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms METAL: Metal-film resistor METAL OXIDE :Metal oxide-film resistor F: nonflammable

• Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these

JW54 1-216-296-00 METAL CHIP

SEMICONDUCTORS

In each case, $u:\mu$, for example: uA....: μ A...., uPA....: μ PA.... $uPB....: \mu PB...., uPC....: \mu PC....$

uPD....: μ PD....

• CAPACITORS

uF:μF • COILS

uH : µi H

Abbreviation
 CND : Canadian
 AUS : Australian
 SP : Singapore
 PA : Panama

: German : Malaysia CH : Chinese The components identified by mark △ or dotted line with mark △ are critical for safety.

Replace only with part number specified specified.

Les composants identifiés par une marque ∆ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

	items.	snould be anticipa	ted when ordering th	nese			
	Ref. No.	Part No.	Description			Remark	Ref. No.
	*	A-2007-266-	A AUDIO BOARD,	COMPLETE (I	DECK A		
	*	A-2007-339-				WR5507	
	*	A-2007-339-7 A-2007-479-7		COMPLETE (DECK A) (WE505)	
	*	A-2007-479-A		COMPLETE (DECK A) (WA7ESA)	
		A-2007-400-F	AUDIO BOARD, (COMPLETE ([DECK A) (WE705S)	1
			*********	*******	****	*	Q71
			< CAPACITOR >				
	C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	D11
	C12	1-136-157-00	FILM	0.022uF	5%		R11
	C13	1-124-234-00		22uF	20		R12
	C18	1-163-251-11	CERAMIC CHIP	100PF	5%		R13
	C21	1-163-131-00	CERAMIC CHIP	390PF	5%		R14
				50011	. 570	JUV	D14
	C22	1-136-157-00	FILM	0.022uF	5%	50V	R14
	C23	1-124-234-00	ELECT	22uF	209		
	C28	1-163-251-11	CERAMIC CHIP	100PF	5%		R21
	C31	1-124-234-00		22uF	209	•••	R21
	C32	1-124-234-00	ELECT	22uF	209		
				LLUI	207	0 104	R23
	C72	1-109-889-11	ELECT	1uF	20%	6 50V	R24
					207	0 JUV	R24
			< CONNECTOR >				n24
*	CNJ31	1-580-782-11	CONNECTOR, BOA	RD TO BOAR	n		D24
	CNJ72	1-764-902-11	CONNECTOR, FFC/	FPC 4P			R31 R32
*	CNP30	1-564-718-11	PIN, CONNECTOR	(SMALL TYP	F) 2P (WESOS	R71
				(5.00.02.777	-, -, (WE705S)	R72
*	CNP32	1-580-772-11	PIN, CONNECTOR	(PC BOARD)	4P	11270331	R73
*	CNP71	1-564-719-11	PIN, CONNECTOR	CMALL TVD			
	•	. 601 1 15 11		(SMALL TYPI	t) 3P		R74
			< IC >				
	IC31	8-759-106-02	IC uPC4570G2				RV11
							RV21
			< JUMPER RESIST	0R >			RV71
	JW1	1-216-295-00	METAL CHIP	0	5%	1/104/	DVZC
	JW51	1-216-296-00	METAL CHIP	0	5%	1/10W	RV72
	JW52		METAL CHIP	0	5%	1/8W 1/8W	*******
	JW53		METAL CHIP	0	5%		
	DAISA	1-216 206 00	MACTAL OLUB	•	370	1/8W	

Ref. No.	Part No.	Description			Remark
JW101	1-216-295-00	METAL CHIP	0	5%	1/10W
			v		5,WE705S)
				(5,1127000)
		< TRANSISTOR			
Q71	8-729-216-22	TRANSISTOR	2SA1162-G		
		< RESISTOR >			
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-91	METAL GLAZE	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
					WE705S)
R14	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
					WR550Z)
			(**2505,	WE0000,	Whoouz)
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-91	METAL GLAZE	100	5%	1/10W
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R24	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
					WE705S)
R24	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
			(WE505,V		
			(***2000,*	*L0000,	WhoodZ)
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-91	METAL GLAZE	47K -	5%	1/10W
R74	1-216-089-91	METAL GLAZE	47K	5%	1/10W
·		< VARIABLE RES	ISTOR >		
RV11	1-241-761-11	RES, ADJ, CARBO	MIN (DDIE)	r	
RV21		RES, ADJ, CARBO	N 1K (FD LE)	/EL D)	
RV71		RES, ADJ, CARBO	IN 10K	EL H)	
	//	, ADU, OARDO		DEED/NO	DAAALSS
RV72	1-241-630-11	RES, ADJ, CARBO	(TAPE SE	בבט(וויט	rMAL))
******		**********	ארבבט(א	IGH))	

		AUDIO	(DECK B)
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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description	Remark		
*	A-2007-040-	A AUDIO BOARD,	COMPLETE (D	ECK B)				< DIODE >			
		*********	*****	*****		D31	8-719-404-46	DIODE MA1	10		
		< CAPACITOR >					0-713-404-40	DIODE MAI	10		
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V			< IC >			
C12	1-136-157-00		0.022uF	5%	50V	1021	0.750.400.00	10 5045704			
C13	1-124-234-00		22uF	20%		IC31	8-759-106-02				
C18	1-163-251-11		100PF			IC81	8-759-106-56	IC uPC12970	CA		
C21	1-163-131-00		390PF	5% 5%	50V						
021	1 100 101 00	OLITAMINO OTTO	390FF	3%	50V			< COIL >			
C22	1-136-157-00		0.022uF	5%	50V	L81	1-410-780-11	INDUCTOR	27mH		
C23	1-124-234-00		22uF	20%	16V	L91	1-410-780-11		27mH		
C28	1-163-251-11	CERAMIC CHIP	100PF	5%	50V				2/11111		
C31	1-124-234-00	ELECT	22uF	20%	16V			< TRANSISTOR	2.		
C32	1-124-234-00	ELECT	22uF	20%				C THAIRDIOTOI	1,7		
						Q51	8-729-822-05	TRANSISTOR	2SD1622-S	T_TD	
C33	1-124-234-00		22uF	20%	16V	Q52	8-729-822-05		2SD1622-S		
C51		CERAMIC CHIP	0.0022uF	10%		Q53	8-729-822-05		2SD1622-S		
C52	1-164-161-11		0.0022uF	10%	100V	071		TRANSISTOR	2SA1162-G		
C53		CERAMIC CHIP	0.0068uF	10%			0 . 20 2 10 22	111/10/01/01	23A1102-G		
C54	1-136-601-11	FILM	0.01uF	5%	630V			< RESISTOR >			
C56	1-164-505-11	CERAMIC CHIP	2.2uF		16V	D11	1 010 000 00				
C57	1-164-346-11	CERAMIC CHIP	1uF		16V	R11	1-216-099-00	METAL CHIP	120K	5%	
C71	1-164-346-11	CERAMIC CHIP	1uF		16V	R12	1-216-025-91	METAL GLAZE	100	5%	1/10\
C80	1-124-234-00		22 u F	20%		R13	1-216-100-00	METAL GLAZE	130K	5%	1/10\
C81	1-164-232-11		0.01uF	20%	16V 50V	R14 R21	1-216-068-00 1-216-099-00	METAL CHIP METAL CHIP	6.2K 120K	5%	1/10
C82	1 100 157 00	F11.4.4		2-2			. 270 000 00	WE'RE OTH	120K	5%	1/10V
C83	1-136-157-00 1-164-004-11	FILM	0.022uF	5%	50V	R22	1-216-025-91	METAL GLAZE	100	5%	1/100
C84		CERAMIC CHIP	0.1uF	10%	25V	R23	1-216-100-00	METAL GLAZE	130K	5%	1/10V
C85	1-136-478-11	FILM	470PF	5%	630V	R24	1-216-068-00	METAL CHIP	6.2K	5%	1/100
C86	1-136-433-11 1-163-143-00	FILM	100PF	5%	630V	R31	1-216-033-00	METAL CHIP	220	5%	1/100
000	1-103-143-00	CERAMIC CHIP	0. 0012 uF	5%	50V .	R32	1-216-033-00	METAL CHIP	220	5%	1/100
C87	1-136-273-91	FILM	75PF	5%	630V	R33	1-216-065-00	METAL CHIP	4 7V	E 0/	4 (4 0)
C88	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	R51	1-216-097-91	METAL GLAZE	4.7K	5%	1/10V
C89	1-124-234-00	ELECT	22uF	20%		R52	1-216-097-91	METAL GLAZE	100K	5%	1/10V
C90	1-107-584-11	CERAMIC	4PF		F500V	R53	1-216-073-00	METAL CHIP	100K	5%	1/10V
C91	1-164-232-11	CERAMIC CHIP	0.01uF		50V	R54	1-216-309-00	METAL CHIP	10K	5%	1/10W
						1104	1-210-305-00	WIETAL CHIP	5.6	5%	1 /10W
C92 C93	1-136-157-00		0.022uF	5%	50V	R55	1-216-309-00	METAL CHIP	5.6	5%	1/10W
	1 126 470 11	CERAMIC CHIP	0.1uF	10%		R57	1-216-298-00	METAL CHIP	2.2	5%	1/10W
	1-136-478-11		470PF	5%	630V	R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
	1-136-433-11		100PF	5%	630V	R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
090	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V	R73	1-216-089-91	METAL GLAZE	47K	5%	1/10W
C97	1-136-273-91	FILM	75PF	5%	630V	R74	1-216 000 01	METAL CLASE	470		
		CERAMIC CHIP	330PF		50V	R81	1-216-089-91	METAL GLAZE	47K	5%	1/10W
C99		CERAMIC CHIP	0.47uF	1070	25V		1-216-073-00	METAL CHIP	10K	5%	1/10W
			0.774		234	R82	1-216-085-00	METAL CHIP	33K	5%	1/10W
		< CONNECTOR >				R83	1-216-001-00	METAL CHIP	10	5%	1/10W
01100					-	R84	1-216-101-00	METAL CHIP	150K	5%	1/10W
	1-580-782-11	CONNECTOR, BOA	RD TO BOARD)	ĺ	R85	1-216-075-00	METAL CHIP	12K	5%	1/10W
	1-580-781-11	PIN, CONNECTOR ((PC BOARD) 7	Ρ		R91		METAL CHIP	10K	5% 5%	
	1-580-782-11	CONNECTOR, BOAI	RD TO BOARD			R92		METAL CHIP	33K		1/10W
('NID71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE	3P		R93		METAL CHIP		5%	1/10W
					1				10	5%	1/10W
CNP71	1-764-902-11	CONNECTOR, FFC/F	PC 4P			R94	1-216-101-00	METAL CHID	1504	E0/	
CNP72		PIN, CONNECTOR (R94	1-216-101-00	METAL CHIP	150K	5%	1/10W

1/8W

5%

MAIN DIRECTION HEADPHONE PANEL

POWER SWITCH TRANSFORMER VOL

Dof No	Doet No.	0															L	, U.I.E.		111711	J. O. I.	711	VOL
Ref. No.	Part No.		ription	Remark	Ref. No.	Part No.	Description			Remark		Ref. No.	Part No.	Description			Remark	Ref. No.	Dart No.	Description			۱
* CN80	7 1-568-954-11	1 PIN, (CONNECTOR 5P		J502	1-568-510-4	1 JACK, LARG	-	1501	nemark						_			Part No.	Description		H	Remark
	•				* J801	1-764-188-1	I JACK, LANG	I TYPE (PHON	IES)		(R106	1-247-842-11		3K	-5%	1/4W	R524	1-249-425-11		4.7K	5%	1/4W
		< CON	INECTOR >			1 704 100 1	JACK (SMAL	LL TTPE) (DIA.	3.5) (CO	NTROL A)	•	R107	1-249-417-11		1K	5%	1/4W	R525	1-249-425-11		4.7K	5%	1/4W
01100					* J802	1-764-188-1	JACK (SMAL	I TVDE) (DIA	(WE60	5S,WE705S)		R108	1-249-424-11		3.9K	5%	1/4W	R526	1-249-441-11	CARBON	100K	5%	1/4W
CNP8	02 1-770-247-11	SOCK	ET, CONNECTOR 41P			. 701 100 1	TACK (SIVIAL	LL TTPE) (DIA.	3.5) (UU)	NTROL A)		R109 R110	1-249-429-11 1-249-425-11		10K	5%	1/4W						
									(AAFOO	5S,WE705S)		NIIU	1-249-425-11	CANDUN	4.7K	5%	1/4W	R527	1-249-441-11		100K		1/4W
		< D10	DE >				< FILTER >					R111	1-249-421-11	CARBON	0.01/	F 0/	4/414/	R528			7.5K	5%	1/4W
D104	0.740.000.00				İ		(TIETETT)					R112	1-249-421-11		2.2K	5%	1/4W	R531	1-249-437-11	CARBON	47K	5%	1/4W
D101	8-719-933-33	DIODE			LPF101	1-233-271-11	FILTER, LOW	/ PASS				R113	1-249-417-11		12K	5% 5%	1/4W	R532	1-249-437-11		47K	5%	1/4W
D201	8-719-933-33				LPF201	1-233-271-11	FILTER, LOW	/ PASS				R114	1-249-421-11		1K		1/4W	R533	1-249-437-11	CARBON	47K	5%	1/4W
D521	8-719-987-63							1700				R115	1-249-433-11		2.2K	5%	1/4W	B004					
D522	8-719-987-63	DIODE	1N4148M				< TRANSIST(OR >				11113	1-243-433-11	CARBON	22K	5%	1/4W	R601	1-247-807-31		100	5%	1/4W
D601	6-719-987-63	DIODE	1N4148M (WA7ESA, WE50	5,WE705S)								R116	1-249-423-11	CARBON	3.3K	5%	1/4W	R602	1-247-807-31		100	5%	1/4W
Dena	0 710 007 00	Dione			Q101	8-729-900-74	TRANSISTOR	R DTC143TS	:			R117	1-249-429-11		10K	5%		R603	1-249-433-11		22K	5%	1/4W
D602	8-719-987-63	DIODE	1N4148M (WA7ESA,WE508	5,WE705S)	Q102	8-729-922-37	TRANSISTOR	3 2SD2144S				R118	1-249-409-11			5%	1/4W 1/4W	R604	1-249-433-11		22K	5%	1/4W
D701 D702	8-719-024-99	DIODE	11ES2-NTA2B		Q201	8-729-900-74	TRANSISTOR	DTC143TS				R119	1-249-417-11		220 1K	5%	1/4W	R605	1-249-430-11	CARBON	12K	5%	1/4W
	8-719-024-99	DIODE	11ES2-NTA2B		Q202	8-729-922-37	TRANSISTOR	2SD2144S				R120	1-249-437-11		47K	5%	1/4W	DCCC	1 040 400 44	0400011			
D703	0-719-024-99	DIODE	11ES2-NTA2B		Q501	8-729-119-76	TRANSISTOR	2SA1175-H	HFF			11120	1 243 407-11	CANDON	4/ N	370	1/444	R606	1-249-430-11		12K		1/4W
D704	6-719-024-99	DIODE	11ES2-NTA2B					20/11/10				R121	1-249-437-11	CARRON	47K	5%	1/4W	R607	1-247-858-11		13K	5%	1/4W
D705	9 710 007 00	DIODE			Q502	8-729-620-05	TRANSISTOR	2SC2603-E	F		A PROPERTY OF	R201	1-249-429-11		10K	5%	1/4W	R608	1-247-858-11		13K		1/4W
D705	8-719-987-63	DIODE	1N4148M		Q503	8-729-620-05	TRANSISTOR	2SC2603-E				R202	1-247-887-00		220K	5%	1/4W	R609	1-247-858-11		13K	5%	1/4W
D700	8-719-987-63	DIODE	1N4148M		Q601	8-729-900-80	TRANSISTOR	DTC114ES	.,			R203	1-249-441-11		100K	5%	1/4W	R610	1-247-858-11	CARBON	13K	5%	1/4W
D707	8-719-024-99	DIODE	11ES2-NTA2B		Q602	8-729-801-93	TRANSISTOR	2SD1387				R204	1-249-420-11		1.8K	5%	1/4W	DC12	1 040 400 44	0400041			
D708 D709	8-719-987-63	DIODE	1N4148M	i	Q603	8-729-801-93	TRANSISTOR	2SD1387				11204	1 243 420 11	OANDON	1.01	3 /6	1/444	R613	1-249-422-11		2.7K	5%	1/4W
D109	8-719-933-33	DIODE	HZS6A1L					2001007				R205	1-249-423-11	CARRON	3.3K	5%	1/4W	R614	1-249-422-11		2.7K	5%	1/4W
D710	9 710 000 00	01000			Q604	8-729-900-80	TRANSISTOR	DTC114FS	(WE505)	NE705C)		R206	1-247-842-11		3K	5%	1/4W	R615	1-247-854-11		9.1K	5%	1/4W
	8-719-933-33				Q605	8-729-119-76	TRANSISTOR	2SA1175-H	FF (WF5)	15		R207	1-249-417-11		1K	5%	1/4W	R616	1-247-854-11		9.1K	5%	1/4W
D711 D712	8-719-933-33		_					20/11/10/11	1 - (**-50	WE705S)		R208	1-249-424-11		3.9K	5%	1/4W	R617	1-249-429-11	CARBON	10K	5%	1/4W
D712	8-719-933-38 8-719-987-63	DIODE	HZS6B3L	1	Q606	8-729-900-80	TRANSISTOR	DTC114ES		111/033)		R209	1-249-429-11		10K	5%	1/4W	R618	1 040 401 11	CARRON		•	
D713				ļ	Q701	8-729-141-83	TRANSISTOR	2SB1094-LI	K				. 2.0 120 11	O/ II IDON	TOK	J /0	1/444	R619	1-249-421-11 1-249-429-11		2.2K		1/4W
0714	8-719-987-63	חוטטב	IN4148M	[Q702	8-729-209-15	TRANSISTOR	2SD2012			APPER .	R210	1-249-425-11	CARBON	4.7K	5%	1/4W	R620	1-249-429-11		10K		1/4W
D715	8-719-987-63	DIODE	151444044	[R211	1-249-421-11		2.2K	5%	1/4W	R621	1-249-435-11		2.2K		1/4W
D716	8-719-000-78			İ	Q703	8-729-141-83	TRANSISTOR	2SB1094-LF	K		1.	R212	1-249-430-11	CARBON	12K	5%	1/4W	1021	1-245-435-11	CANDUN	33K		1/4W
D801	8-719-987-63	DIODE	1N4148M	1	Q704	8-729-620-05	TRANSISTOR	2SC2603-EF				R213	1-249-417-11	CARBON	1K	5%	1/4W	R622	1-247-848-11	CADRON		(WE505, V	
D802	8-719-987-63		1N4148M	1	Q705	8-729-900-80	TRANSISTOR	DTC114ES (WA7ESA	.WE605S		R214	1-249-421-11	CARBON	2.2K	5%	1/4W	11022	1 247 040-11	CANDON	5.1K		1/4W
D803	8-719-987-63			1						WR550Z)						•						(WE505, V	VE/035)
	0 1 10 001 00	DIODL	1114 140101		Q706	8-729-900-80	TRANSISTOR	DTC114ES (WA7ESA.	WE605S.		R215	1-249-433-11	CARBON	22K	5%	1/4W	R623	1-249-437-11	CARRON	47K	5%	1/4W
D804	8-719-987-63	DIODE	1N4148M							WR550Z)		R216	1-249-423-11	CARBON	3.3K	5%	1/4W		1 2 10 107 11	OAHDON		(WE505, V	
	8-719-987-63	DIODE	1N4148M (WE605S,WE705S		Q707 8	8-729-119-76	TRANSISTOR	2SA1175-HF	E	,						(EXCEPT	WE505)	R624	1-249-437-11	CARRON	47K		1/4W
D901	8-719-313-43	LED	SEL6210S-TH10 (AUTO REC)	0700							R217	1-249-429-11	CARBON	10K	5%	1/4W			0/11/00/14	7/10	(WE505, V	
D902	8-719-313-43	LED	SEL6210S-TH10 (SYNCHRO)	LEVEL)	Q708 8	3-729-140-04	TRANSISTOR	2SB1116A-L				R218	1-249-409-11	CARBON	220	5%	1/4W	R701	1-249-414-11	CARBON	560		1/4W
				,WE705S)	Q709 8	3-729-224-62	TRANSISTOR	2SK246-GR	(WA7ESA	N)	()	R219	1-249-417-11	CARBON	1K	5%	1/4W	R702	1-249-429-11		10K	5%	
			(**1:0033	,WE/055)	Q801 8	3-729-900-89	TRANSISTOR	DTC144ES													(WA7ESA,		
		< IC >			Q802 8	-729-900-74	TRANSISTOR	DTC143TS (\	WA7ESA,	WE605S,	Tean S		1-249-437-11		47K	5%	1/4W	R703	1-249-419-11	CARBON	1.5K		1/4W
				1	0902 0	700 000 00	TRANSISTOR			WR550Z)		R221	1-249-437-11		47K	5%	1/4W					• //	
IC501	8-752-075-27	IC CXA	1878Q		Q803 8	-129-020-05	TRANSISTOR	2SC2603-EF	(WE6055			R501	1-215-455-00		27K	1%	1/4W	R704	1-249-425-11	CARBON	4.7K	5%	1/4W
IC 502	8-759-634-51	IC M52	18AP	ļ				•.		WE705S)		R502	1-215-452-00	METAL	20K	1%	1/4W	R705	1-249-427-11		6.8K		1/4W
IC 503	8-759-634-51	IC M52	18AP	ļ	Q804 8	720 110 76	TRANSICTOR	0014477	_									R706	1-249-419-11	CARBON	1.5K	_	1/4W
IC601	8-759-822-38	IC LA6	510		Q805 8	-729-119-70	TRANSISTOR TRANSISTOR	2SA11/5-HFI	E			R503	1-249-417-11		1K	5%	1/4W	R707	1-249-429-11	CARBON	10K		1/4W
IC701	8-759-634-51	IC M52	18AP		Q806 8	-729-900-01	TRANSISTUR	DIATIAES				R504	1-249-428-11		8.2K	5%	1/4W	R708	1-249-419-11	CARBON	1.5K		1/4W
						-729-900-60	TRANSISTOR	DTA14450 "				R505	1-247-903-00		1M	5%	1/4W						
IC801	8-752-871-45	IC CXP	32224-043Q			. 20 300-00	TRANSISTOR	DIATAGES (V	va/ESA,V			R507	1-249-429-11		10K	5%	1/4W	R709	1-249-425-11		4.7K	5%	1/4W
IC802	8-759-165-82	IC PST	600E-T	1						WE705S)		R508	1-249-413-11	CARBON	470	5%	1/4W	R710	1-249-417-11		1K	5%	1/4W
IC802	8-759-520-90	IC PST	572E				< RESISTOR >					DEOO	1.040 417 44	CADDON	412			R711	1-249-427-11		6.8K		1/4W
IC804	8-759-916-14	IC SN74	IHC04AN				< ncolo lun >					R509	1-249-417-11		1K		1/4W	R712	1-249-427-11		6.8K	5%	1/4W
IC805	8-759-000-48	IC MC1	4052BCP		R101 1-	-249-429-11	CARRON	102	E0/	4/404		R510	1-249-437-11		47K		1/4W	R713	1-249-417-11	CARBON	1K		1/4W
1000	0.744.545.5			· ·		247-887-00		10K 220K		1/4W		R511 R512	1-249-429-11 1-249-413-11		10K	5%	1/4W						
10901	8-741-810-59	IC SBX1	810-59			249-441-11		100K		1/4W		R521			470		1/4W		1-249-429-11		10K		1/4W
						249-420-11		1.8K		1/4W		11941	1-249-433-11	UANDUN	22K	5%	1/4W	R715	1-249-422-11		2.7K	5%	1/4W
	<	< JACK >				249-423-11		3.3K		1/4W		R522	1-249-426-11	CARRON	E CV	F0/	4/04/		1-249-433-11		22K		1/4W
IEO4	1 770 614 44	1401/ 5:-				,		U.JA	376	1/4W	1 '		1-249-426-11		5.6K		1/4W	R717	1-249-429-11	CARBON	10K	5%	1/4W
1301	1-770-014-11 J	IACK, PIN	4P (LINE IN/OUT)								L	11020	, 273 700-11	UARBUN	39K	5%	1/4W						

MAIN DIRECTION HEADPHONE PANEL

1-249-422-11 CARBON

1-249-422-11 CARBON

1-249-429-11 CARBON

1-247-862-11 CARBON

CARBON

1-249-422-11

2.7K

2.7K

2.7K

10K

20K

5%

5%

5%

5%

5%

1/4W

1/4W

1/4W

1/4W

1/4W

R838

R839

R840

R842

] []			0.11	IAII						
DOWN	ER SWIT	CU TI	RANSFOR	MED	VOI						
I OW	LN SWIII	CII	ANSFOR	IVIED	VOI	-					
Ref. No.	Part No.	Description	1	F	Remark	Ref. No.	Part No.	Description			Remark
R718	1-249-436-11	CARBON		5%	1/4W	R844	1-249-421-11	CARBON	2 21/	-	
***	1 243 400 11	OANDON	JJK	3 /0	1/4 VV	R845	1-247-874-11	CARBON	2.2K 62K	5%	1/4W
R719	1-249-430-11	CARBON	12K	5%	1/4W	R846	1-247-866-11	CARBON	30K	5%	1/4W
△ R720	1-219-136-11	FUSIBLE	0.22	10%	1/4W F	R847				5%	1/4W
R721	1-249-415-11	CARBON	680	5%	1/4W	R848	1-249-431-11	CARBON CARBON	15K	5%	1/4W
11121	1-243-413-11	CANDON	000		WA7ESA)	N040	1-247-852-11	CARBUN	7.5K	5%	1/4W
R721	1-249-419-11	CARBON	1.5K	5%	1/4W	R849	1-249-429-11	CARBON	101/	E0/	41444
11121	1 240 415 11	OAHDON	1.51		WA7ESA)	R850	1-249-429-11	CARBON	10K	5%	1/4W
△ R722	1-219-137-11	FUSIBLE	0.33	10%	1/4W F	1			10K	5%	1/4W
23 11/22	1-213-137-11	FOSIBLE	0.55	10 70	1/4WV F	R851 R852	1-249-429-11	CARBON	10K	5%	1/4W
△ R723	1-219-137-11	FUSIBLE	0.33	10%	1/4W F	R853	1-249-429-11	CARBON	10K	5%	1/4W
R724	1-249-412-11	CARBON	390	5%	1/4W	noos	1-249-434-11	CARBON	27K	5%	1/4W
11/24	1-245-412-11	CARBON	390		WA7ESA)	DOEA	1 040 404 11	CADDON	071/	50 /	4 (4)41
R805	1-249-429-11	CARBON	10K	,	,	R854	1-249-434-11	CARBON	27K	5%	1/4W
R806	1-249-429-11	CARBON	10K	5%	1/4W	R855	1-249-434-11	CARBON	27K	5%	1/4W
R807				5%	1/4W	R856	1-249-434-11	CARBON	27K	5%	1/4W
nov/	1-249-429-11	CARBON	10K	5%	1/4W	R857	1-249-421-11	CARBON	2.2K	5%	1/4W
D 000	1 040 400 44	CADDON	101/	F0/	4 / 414 /	R858	1-249-421-11	CARBON	2.2K	5%	1/4W
R808	1-249-429-11	CARBON	10K	5%	1/4W	2050					
R809	1-249-441-11	CARBON	100K	5%	1/4W	R859	1-249-421-11	CARBON	2.2K	5%	1/4W
R810	1-249-417-11	CARBON	1K	5%	1/4W	R860	1-249-434-11	CARBON	27K	5%	1/4W
R811	1-249-433-11	CARBON	22K	5%	1/4W	R861	1-249-434-11	CARBON	27K	5%	1/4W
R812	1-249-433-11	CARBON	22K	5%	1/4W					(WA7ESA	,
D010	4 047 007 04	0400041	400			R862	1-249-441-11	CARBON	100K	5%	1/4W
R813	1-247-807-31	CARBON	100	5%	1/4W	R863	1-247-807-31	CARBON	100	5%	1/4W
R814	1-249-433-11	CARBON	22K	5%	1/4W						
R815	1-249-435-11	CARBON	33K	5%	1/4W	R901	1-249-413-11	CARBON	470	5%	1/4W
R816	1-249-441-11	CARBON	100K	5%	1/4W	R902	1-249-413-11	CARBON	470	5%	1/4W
R817	1-249-426-11	CARBON	5.6K	5%	1/4W					(WE605S	,WE705S)
						R903	1-249-441-11	CARBON	100K	5%	1/4W
R818	1-249-422-11	CARBON	2.7K	5%	1/4W						,WE705S)
R819	1-249-428-11	CARBON	8.2K	5%	1/4W	R904	1-247-807-31	CARBON	100	5%	1/4W
R820	1-249-428-11	CARBON	8.2K	5%	1/4W	R911	1-249-418-11	CARBON	1.2K	5%	1/4W
R821	1-249-430-11	CARBON	12K	5%	1/4W						
R822	1-247-852-11	CARBON	7.5K	5%	1/4W	R912	1-249-420-11	CARBON	1.8K	5%	1/4W
						R913	1-249-422-11	CARBON	2.7K	5%	1/4W
R823	1-249-425-11	CARBON	4.7K	5%	1/4W	R914	1-249-424-11	CARBON	3.9K	5%	1/4W
R824	1-249-425-11	CARBON	4.7K	5%	1/4W	R915	1-249-427-11	CARBON	6.8K	5%	1/4W
R825	1-249-429-11	CARBON	10K	5%	1/4W	R916	1-249-431-11	CARBON	15K	5%	1/4W
R826	1-249-429-11	CARBON	10K	5%	1/4W						
R827	1-249-425-11	CARBON	4.7K	5%	1/4W	R917	1-249-437-11	CARBON	47K	5%	1/4W
				(WE605S,	WE705S)	R921	1-249-418-11	CARBON	1.2K	5%	1/4W
						R922	1-249-420-11	CARBON	1.8K	5%	1/4W
R828	1-249-429-11	CARBON	10K	5%	1/4W	R923	1-249-422-11	CARBON	2.7K	5%	1/4W
				(WE605S,	WE705S)	R924	1-249-424-11	CARBON	3.9K	5%	1/4W
R829	1-249-393-11	CARBON	10	5%	1/4W						
				(WE605S,1	WE705S)	R925	1-249-427-11	CARBON	6.8K	5%	1/4W
R830	1-249-421-11	CARBON	2. 2 K	5%	1/4W	R926	1-249-431-11	CARBON	15K	5%	1/4W
R8 31	1-249-421-11	CARBON	2. 2 K	5%	1/4W	R927	1-249-437-11	CARBON	47K	5%	1/4W
R832	1-249-434-11	CARBON	27K	5%	1/4W	R931	1-249-418-11	CARBON	1.2K	5%	1/4W
						R932	1-249-420-11	CARBON	1.8K	5%	1/4W
R833	1-249-434-11	CARBON	27K	5%	1/4W						
				(WA7ESA,	WE705S)	R933	1-249-422-11	CARBON	2.7K	5%	1/4W
R834	1-247-887-00	CARBON	22 0K	5%	1/4W	R934	1-249-424-11	CARBON	3.9K	5%	1/4W
R835	1-247-887-00	CARBON	220K	5%	1/4W					(WE605S,	
R8 36	1-247-887-00	CARBON	220K	5%	1/4W	R935	1-249-427-11	CARBON	6.8K	5%	1/4W
R837	1-247-887-00	CARBON	220K	5%	1/4W	R936	1-249-431-11	CARBON	15K	5%	1/4W

The components identified by mark
⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number
specified.

R939

R941

R942

1-249-437-11 CARBON

1-249-424-11 CARBON

1-249-418-11 CARBON

1-249-420-11 CARBON

Les composants identifiés par une marque A sont critiques pour la sécurité.

47K

3.9K

1.2K

1.8K

5%

(WA7ESA, WE505, WR550Z)

5%

1/4W

1/4W

5% 1/4W

5% 1/4W

Ne les remplacer que par une pièce portant le numéro spécifié.

DIRECTION

WR550Z)

HEADPHONE PANEL POWER SWITCH

Ref. No.	Part No.	Description	Remar	rk	Ref. No.	Part No.	Descripti	on	R	emark
			5% 1/4\	N	S942	1-554-303-21	SWITCH.	TACTILE (RMS/START)	
R943	1-249-422-11	0, 11, 10 0		1		1-554-303-21		TACTILE (CHECK)	•	
R944	1-249-424-11	CARBON 3.9K	5% 1/4\	//				TACTILE (SET)		
					S944	1-554-303-21	SWITCH,	IACTICE (SET)		
R945	1-249-427-11	CARBON 6.8K	5% 1/4\				OMUTOU	TACTUE (AUTO CALIC	TADT \	
R946	1-249-431-11	CARBON 15K	5% 1/4\	W		1-554-303-21		TACTILE (AUTO CAL/S		
R947		171/	5% 1/4\	W	S946	1-554-303-21		TACTILE (HIGH/NORM		
11347	1245 457 11	0/11/2011			S947	1-762-609-11	SWITCH,	SLIDE (DIRECTION M	ODE)	
		< VARIABLE RESISTOR >								
		< VARIABLE RESISTOR>					< TEST P	IN >		
			ו פען דערו דע							
RV101	1-241-630-11	RES, ADJ, CARBON 10K (DO	DEBY LEVEL E)		* TP801	1 560 060 00	DIN CON	NECTOR 2P		
RV201	1-241-630-11	RES, ADJ, CARBON 10K (DO	DEBA FEAFE R)	1	1 1 1 1 1 1 1	1-560-060-00	FIN, CON	NEGTOR 21		
RV601	1-241-765-11	RES, ADJ, CARBON 22K (PI	TCH CONTROL)					TOD THIRE		
			(WE505,WE70				< INDICA	TOR TUBE >		
RV901	1-241-797-11	RES, VAR, CARBON 20K (A	UTO REC LEVEL)	İ						
	1-225-173-11	RES, VAR, CARBON 50K (P	TCH CONTROL)		VFD901	1-517-263-11	INDICATO	OR TUBE, FLUORESCE	NT	
NV902	1-223-173-11	HEO, VAII, OMBOIL OOM ((WE505,WE70	5S)						
			(**2505,**270	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			< VIBRAT	OR >		
							V 10.00			
		< SWITCH >			V004	4 570 475 44	VIDDATO	D CEDAMIC (10MH-)		
					X801	1-5/9-1/5-11		R, CERAMIC (10MHz)		
△ S001	1-762-581-11	SWITCH, AC POWER PUSH	(1 KEY) (POWER	3)	******	*****	******	********	*****	*****
23 000.			(WE505,WE70	(5S)						
S801	1-554-118-00	SWITCH, PUSH (1 KEY) (PO		1	*	1-634-841-14		BOARD (DECK A) (W.		
5001	1-334-110-00	(WA7ESA, WE605S, WR550)		1	*	1-638-020-11	LEAF SW	BOARD (DECK A) (W	E505,WE	6 05S,
	4 554 000 04			}				1		WR550Z)
S911	1-554-303-21	SWITCH, TACTILE (CLEA	in)	i			******	*******		
S912	1-554-303-21			1			00111	OTOD		
S913	1-554-303-21	SWITCH, TACTILE (< BA	CK)				< CONNE	CTOR >		
S914	1-554-303-21	SWITCH, TACTILE (◄◄)								
\$915	1-554-303-21				* CNP81	1-568-850-11	SOCKET,	CONNECTOR 7P (WE	505,WE6	
S916	1-554-303-21	SWITCH, TACTILE (REC)								WR550Z
2910	1-334-303-21	SWITCH, TACTIEE (TIEG)			* CNP81	1-568-852-11	SOCKET.	CONNECTOR 9P (WA	7ESA,WI	E705S)
		ONLITOUR TAOTH E (DECET)			Old O	1 000 002 11	000	(****		,
S917	1-554-303-21	SWITCH, TACTILE (RESET)					< IC >			
S918	1-554-303-21	SWITCH, TACTILE (MEMOI	RY)	ı			< 10 >			
S921	1-554-303-21	SWITCH, TACTILE (=)		1				B (114)		
S922	1-554-303-21	SWITCH, TACTILE (PAUSE)		IC81	8-749-924-10		5165K-B (H1)		
S923	1-554-303-21	SWITCH, TACTILE (▷)			IC82	8-749-924-10	IC NJL	5165K-B (H1) (WA7ES	SA,WE70	5 S)
0020	1 001 000 21	,								
0004	1 554 202 21	SWITCH, TACTILE (<>)					< RESIS	TOR >		
S924	1-554-303-21		HTE\							
S925	1-554-303-21				004	1-249-417-11	CARBON	1 K	5%	1/4W
S926	1-554-303-21	SWITCH, TACTILE (◀◀ /-I			R84				5%	1/4W
S927	1-554-303-21				R85	1-249-408-11				
S928	1-554-118-00	SWITCH, PUSH (1 KEY)(PI	TCH CONTROL)		R86	1-249-408-11	CARRON	l 180	5%	1/4W
			(WE505,WE705	5S)				(WA7ESA	,WE705S
0021	1-554-303-21	SWITCH, TACTILE (RESET	١				< SWIT(CH >		
S931			•							
S932	1-554-303-21		,	nec)	C01	1-571-958-11	SWITCH	I, PUSH (1 KEY) (STO	P)	
S 9 33	1-554-303-21				S81				,	
S934	1-554-303-21		WE605S,WE705	5)	S82	1-571-281-21		I, LEAF (CrO2)		
S935	1-554-303-21	SWITCH, TACTILE (SYNCH	IRO) (WE605S,		S86	1-571-281-21	SWITCH	I, LEAF (HALF)		
			WE70	5S)	******	******	******	*******	*****	*****
									,	
COSE	1-554-303-21	SWITCH, TACTILE (ARL) (WATESA WESOS		*	1-634-841-14	LEAF SV	W BOARD (DECK B) (V	VA7ESA	№ E705S)
S935	1-334-303-21	SWITCH, INCHEL (AIL) (*			W BOARD (DECK B) (V		
			WR50	132)	1	1-030-020-11	LLAI O	TO DOMINO (DECIN D) (WR5502
S936	1-762-567-11									********
S937	1-762-609-11			505)	i.		*****	******		
S937	1-762-608-11	SWITCH, SLIDE (DOLBY N	IR) (WE505)							
S938	1-554-303-21			05,			< CONN	ECTOR >		
5550			WR55		Ï					
0044	1 554 000 01	SWITCH, TACTILE (DISPL		,	* CNPR1	1-568-850-11	SOCKET	r, connector 7P (WI	E505.WE	605S.
S941	1-004-303-21	STATEOUT, INVITE (DISFL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1	. 555 565 11	J 11E	,,		WR5502
					7.1		h., m1.	Les composants id	dentifié.	
					the compon	ents identified	by mark	marque \triangle sont c	ritione	Dour la
				1 4	GZ OI GOILGO	l line with mar	aic aic	marque de sont e	. ; ques	F - 21 14

Les composants identifiés par une marque A sont critiques pour la sécurité. Ne les remplacer que par u ne pièce portant le numéro spécifié.

LEAF SW (DECK B)

Ref. No.	Part No.	Description			Remark	Dof No.	D. J.N.			
* CNP8	31 1-568-852-1		NECTOR OF ()			Ref. No.	Part No.	Description	Remark	
			NEOTON SF (1	VA/CSA,V	VE/U5S)	△ T801 △ T801	1-427-782-1		IS,CND,PA)	
		< IC >				22 1001	1-427-783-1	1 TRANSFORMER, POWER (A		•
1001	9 740 004 4	0 10 4/11				△ T801	1-427-784-1	1 TRANSFORMER, POWER (E	CH)	
IC81 IC82	8-749-924-1 8-749-924-1	0	(-B (H1)					CONTROL OTHER, I OWEN (E	,	
1002	0-145-524-1	0 IC NJL5165K	-в (н1) (WA7	ESA,WE7	05S)	******	*********	**********	*****	
		< RESISTOR >						A0050000150 a naces		
D04								ACCESSORIES & PACKING N	MATERIALS	
R81 R82	1-249-414-1		560	5%	1/4W				********	
R83	1-247-818-1 ⁻ 1-247-834-1 ⁻		300	5%	1/4W		1-473-598-11	REMOTE COMMANDER (RM	-J910) (WA7FSA	
R84	1-249-417-11		1.3K 1K	5% 5%	1/4W				:CND)	
R85	1-249-408-11		180	5%	1/4W 1/4W		1-551-734-11	, , , , , , , , , , , , , , , , , , , ,	,	
				070	1/400	Λ	1-569-007-11 1-569-008-21		(E)	
R86	1-249-408-11	CARBON	180	5%	1/4W	45	3-798-411-11	The state of the s	(CH)	
				(WA7ESA	,WE705S)		0 7 30 411-11	, me monton (Ele	GLISH/FRENCH/ ORTUGUESE) (AEP)	
		CWITCH						SPANISH/P	URIUGUESE) (AEP)	
		< SWITCH >					3-798-411-21		GLISH) (UK)	
\$81	1-571-958-11	SWITCH, PUSH	(1 KEV) (STO	D\			3-798-411-41	MANUAL, INSTRUCTION (GE	RMAN/DUTCH/	
\$82	1-571-281-21	SWITCH, LEAF ((CrO2)	r <i>)</i>			0.700 444	SWED	SH/ITALIAN) (AFP)	
\$83	1-571-281-21	SWITCH, LEAF ((METAL)			ļ	3-798-411-51	MANUAL, INSTRUCTION (GE	RMAN) (G)	
\$84	1-571-281-21	SWITCH, LEAF (ERASER PRO	OF (SIDE	A))		3-810-716-11	MANUAL INCTRUCTION (FN)	21 1010 410 011	
\$85	1-571-281-21	SWITCH, LEAF (ERASER PRO	OF (SIDE	A))		0 010-710-11	MANUAL, INSTRUCTION (EN		
\$86	1-571-201-21	CMITCH LEAD	1141 6				3-810-716-21	MANUAL, INSTRUCTION (FRE	AUS,PA)	
*****	1-3/1-201-2! *********	SWITCH, LEAF (HALF)					MANUAL, INSTRUCTION (ENG	SLISH/FRENCH/	
			*****	******	****			SPANISH/CHIN	ESE) (E,MY,SP,CH)	
		MISCELLANEOU	S				0.010.705.44		:	
		*********	*				3-810-765-11	MANUAL(CONTROL-A1), INST	RUCTION	£
							3-810-765-21	(ENGLISH) (WE MANUAL(CONTROL-A1), INST	605S:US,AUS,PA)	
△ 9 △ 9	1-551-188-99	CORD, POWER (0 0.0 .00 21	(ENGLISH/FRENCH/SPANISH/	RUCTION SERMAN/DUTCH/	
∆ 9	1-558-945-21 1-575-651-21	CORD, POWER (POLAR.SPT-1) (US,CND	,PA)			SWEDISH/ITALIAN/PORTUGUS	SE/CHINESE)	
	1 373 031-21	CORD, POWER (AEP,G,MY,SP,	ЭН)				(WE605S	:CND,E,MY,SP,CH)	
△ 9	1-696-586-11	CORD, POWER (UK)			*	2 000 000 04			
▲ 9	1-696-845-11	CORD, POWER (A	AUS)		İ	*	3-932-083-01	CUSHION (EXCEPT WATESA)		
△ 10	1-569-007-11	ADAPTER, CONVI	ERSION 2P (E)	ļ	*	3-934-284-01	CARTON, INDIVIDUAL (WE505 CARTON, INDIVIDUAL (WE605) C-110 OND 5 4110	
△ 10	1-569-008-21	ADAPTER, CONVI	ERSION 2P (C	H)				ONITION, HEDIVIDUAL (VEDUS	5.U5,CND,E,AU5, PA)	
65	1-760-882-11	WIDE (ELAT TVDE	T) /7 000E) #			*	3-936-086-01	CUSHION (WA7ESA)	FA)	6
00	1-703-002-11	WIRE (FLAT TYPE	E) (7 CORE) (V			*	3-934-285-01	CARTON, INDIVIDUAL (WE705)	S)	Val.
				v	/R550Z)	*	3-934-287-01	CARTON, INDIVIDUAL (WA7ES	A)	
65	1-769-912-11	WIRE (FLAT TYPE	(9 CORE) (V	VA7ESA.W	/F705S)		3-935-092-01 3-935-644-01	INDIVIDUAL CARTON- (WE605	S:MY,SP,CH)	
74	1-/69-598-11	WIRE (FLAT TYPE) (41 CORE)					INDIVIDUAL CARTON (WR550 COVER BATTERY (FOR RM-J91	Z)	
121	1-638-983-11	MOTOR FLEXIBLE						OOVER DATTERT (FOR NIW-191		
HP101	A-2004-526-A	DECK ASSY, HEAD			_	*******	********	**********	:CND) ******	
			W	/E605S,W	R550Z)					
HP101	A-2004-548-A	DECK ASSY, HEAD) (PLAYBACK)	/WATES	. 1					
			, G 11 5/1011)		705S)					
					. 1					
HRPE101	A-2004-527-A	DECK ASSY, HEAD	(RECORD/PL	AYBACK/	ERASE)					
M1 M2	X-3365-377-2	MOTOR ASSY (CA	PSTAN)							
∆ S701	1-692-155-11	MOTOR ASSY (RE SELECTOR, POWE	EL)	/OI ** C =						
	. JOE 100-11	OLLEGION, PUWE	n VULIAGE (\		ID) /E)					
				SELECTO	m) (E)					
										()
					Th	COMPOSITION	idantif-11			
					Δ.	or dotted lin	identified by r e with mark Δ	nark Les composants iden marque A sont criti	tifiés par une	

The components identified by mark	Les composants identifiés par un marque A sont critiques pour l sécurité. Ne les remplacer que par une pièc portant le numéro spécifié.
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Ref. No.	Part No.	Description	Remark

		HARDWARE LIST	

#1	7-682-548-04	SCREW +BVTT 3X8 (S)	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	1
#4	7-685-134-19	SCREW (+ PTPWH) (2.6X8)	
#5	7-621-773-95	SCREW +BVTT 2.6X6 (S)	
#6	7-621-775-00	SCREW +B 2.6X3	
#7	7-627-556-08	SCREW +P 2.6X2.8	1